

Промышленные мониторы VisuNet GXP

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(727) 345-47-04

Беларусь +(375) 257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: phb@nt-rt.ru || сайт: <https://pepperl-fuchs.nt-rt.ru/>



Operator Workstation (PC)

VisuNet GXP PC Zone 2/22 (2024 Generation)

PC-GXP1200-19S-* -P5/P6*

- 19 in (48 cm) display
- PC solution with pre-installed Windows® operating system
- Lightweight design
- Completely modular system for easy field maintainability
- Flush or bezel mounting options
- IP66 rating for each individual component and entire system with housing
- Certified for ATEX and IECEx Zone 2/22

VisuNet GXP PC Zone 2/22 (2024 Generation, Intel® Atom Elkhart Lake Processor)



Function

The VisuNet GXP PC (PC-GXP1100- 19S*/PC-GXP1200-19S*) is a lightweight modular operator workstation for use in explosion-hazardous areas according to ATEX and IECEx Zone 1/21 and Zone 2/22.

The system assembly consists of three core components that are field replaceable by the customer.

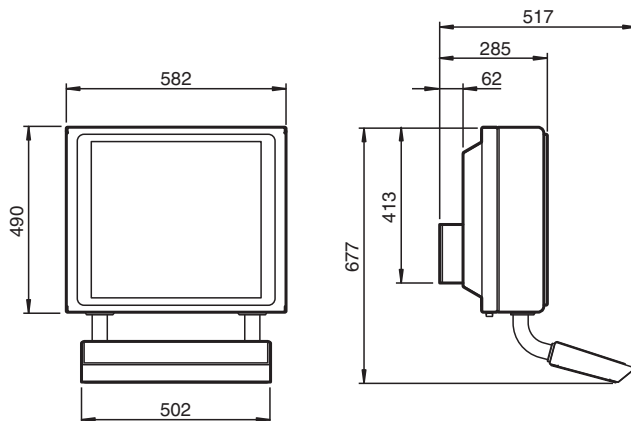
The display unit (DPU1100-*/DPU1200- *) is an explosion-hazardous area-rated display panel with an optional 10 finger multitouch sensor. The display and touch sensor are optically bonded with the hardened front glass.

The PC unit (PCU1100-*/PCU1200-*) is an explosion-hazardous area-rated computing unit that runs a pre-installed Microsoft® Windows® operating system. The PC unit allows users to install individual software packages such as SCADA applications to visualize and control their automation application.

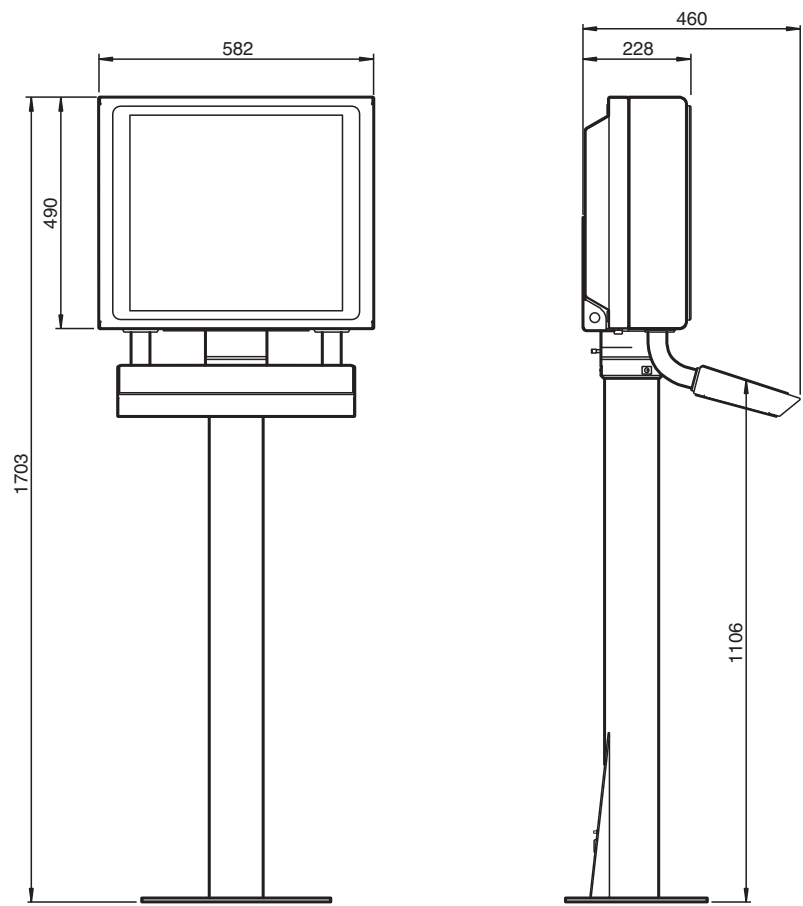
The power supply units (PSU1100-*/ PSU1200-*) are explosion-hazardous area-rated power supplies that provide the PCU and DPU devices with 24-V DC power.

As a standard mounting option, a bezel is available that allows the panel to be mounted into the system housing or into a cabinet (requires mounting kit). The panel can also be flush-mounted into a cabinet from the back with additional mounting brackets.

Dimensions



Dimensions



Technical Data

General specifications		
Type	Personal Computer	
Hardware		
Processor	Intel® Atom Elkhart Lake x6425RE	
RAM		8 GB
Mass storage	240 GByte industrial grade SSD optional: 480 GByte SSD	
Supply		
Power consumption		
AC		115/230 V AC, 0.4 ... 0.7 A, 50/60 Hz
DC	18 ... 36 V DC , 1.5 ... 3 A	
Indicators/operating means		
Display		
Type		Liquid Crystal Display (LCD) with LED backlight
Screen diagonal	48.26 cm (19 inch)	
Resolution		1280 x 1024 (SXGA) , Aspect ratio 5:4
Color depth	24 bit (16.7 M) color	
Contrast		1000:1
Brightness	450 cd/m² (nit)	
Reading angle		170° horizontal 160° vertical
Life span	back lamp life: 50.000 hrs typical half life , at 25 °C (77 °F)	
Input devices		
Touch screen	optional: projective capacitive; 10 finger multi-touch, glove friendly	
Keyboard	Foil keyboard with different pointing device options available (see EXTA4 datasheet)	

Technical Data

Interface

Interface type	Standard: 1 x Ethernet 100/1000BASE-TX (Ex e) or 1 x fiber optic 1000BASE-SX (Multimode) or 1 x fiber optic 1000BASE-LX (Singlemode), 1 x USB 2.0 (Ex e; service port), 2 x USB 1.1 (Ex i; intended for Pepperl+Fuchs keyboard and mouse), 1 x DC or AC power in (via power supply unit) Optional: "interface 3": 1 x barcode reader interface for wired 1-D scanners IDM-160-D*, IDM-Z1-160-D-* and IDM-164-D-* and base station IDMx61-B*, IDM-Z1-x61-B-* and IDM-Z1-x64-B-* (Ex i) "interface 4": 1 x barcode reader interface for wired 2-D scanner IDM-Z1-260-D-* and IDM-Z1-264-D-* (Ex i) "interface 5": 1 x RS-232 interface with Power Supply for miscellaneous devices and peripherals (Ex i) 1 x RS-232 (Ex e) 1 x RS-485 (Ex e) 1 x Ethernet 100/1000Base-TX (Ex e) Bluetooth v4.0, communication distance up to 30 m in open terrain, transmission power +8 dBm, transmission frequency 2.402 ... 2.48 GHz
----------------	--

Directive conformity

Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations) non-Bluetooth products only
Radio and telecommunication terminal equipment		
Directive 2014/53/EU		EN 301 328 V2.1.1 EN 301 489-1 V2.1.1 EN 301 489-17 V3.1.1 Bluetooth products only
RoHS		
Directive 2011/65/EU (RoHS)		EN 50581:2012-09

Software

Operating system	Windows® 10 Enterprise LTSC 2021
------------------	----------------------------------

Ambient conditions

Operating temperature	-20 ... 50 °C (-4 ... 122 °F)
Storage temperature	-20 ... 60 °C (-4 ... 140 °F)
Relative humidity	93% at 40°C, non-condensating, according to EN60068-2-78
Altitude	Operating altitude max. 2000 m
Shock resistance	18 shocks 15 g , 11 ms all axis, IEC 60068-2-27
Vibration resistance	10 ... 150 Hz, +/- 0.075 mm , 1g, 10 cycles per axis according to EN60068-2-6

Mechanical specifications

Degree of protection	IP66 (individual components and entire system with housing)
Material	Internal: Panel: anodized aluminum (TCU, PSU), powder coated aluminum (DPU) External: Bezel: stainless steel AISI 304 (1.4301) System housing: stainless steel AISI 304 (1.4301), bead blasted, typical surface roughness Ra = 1.6 µm
Installation	Flush-mount installation (requires customized mounting kit) Panel-mount installation into system housing with bezel Panel-mount installation into cabinet with Bezel and standard mounting kit
Mass	panel with DC: 22 kg , panel with AC: 23 kg , system housing AG1: 19 kg
Dimensions	panel with DC: 524 mm x 453 mm x 120 mm panel with AC: 524 mm x 453 mm x 137 mm panel with AG1 housing: 582 mm x 490 mm x 224 mm

Data for application in connection with hazardous areas

EU-type examination certificate	BVS 17 ATEX E 037 X
Marking	Ⓔ II 3G Ex ec [ib] q IIC T4 IP66 Gc Ⓔ II 3D Ex tc [ib] IIIC T85 °C IP66 Dc
Directive conformity	

Technical Data

Directive 2014/34/EU		EN 60079-0:2012+A11:2013, EN 60079-7:2015, EN 60079-11:2012, EN 60079-31:2014	
International approvals			
IECEx approval		IECEx BVS 17.0029X	
Approved for			Ex ec [ib] q IIC T4 IP66 Gc Ex tc [ib] IIIC T85 °C IP66 Dc
Standards		IEC 60079-0:2011, IEC 60079-7:2015, IEC 60079-11:2011, IEC 60079-31:2013	

Type Code

PC-GXP 19 inches

PC-GXP	(1)	(2)	(3)	(4)-	(5)-	(6)	(7)	(8)	(9)-	(10)-	(11)
--------	-----	-----	-----	------	------	-----	-----	-----	------	-------	------

Model

PC-GXP	VisuNet GXP Personal Computer System										
--------	--------------------------------------	--	--	--	--	--	--	--	--	--	--

(1) Zone

1100-	Zone 1/21
1200-	Zone 2/22

(2) Display Unit

19S	19 inches, SXGA (1280 x 1024)
-----	-------------------------------

(3) Front Glass & Touch

N	Anti-glare security glass, no touch
C	Anti-glare security glass, projective capacitive 10-finger multitouch

(4)- Interfaces

1-	5 x capacitive system front keys
2-	5 x capacitive system front keys and Bluetooth® interface

(5)- Power Supply Unit

D-	18 ... 36 V DC
A-	115/230 V AC, 50/60 Hz

(6) Interfaces

E	1 x 1000BASE-T LAN Ex e, 1x USB Ex e, 2x USB Ex i
S	1 x 1000BASE-SX fiber optic (Multimode), 1x USB Ex e, 2x USB Ex i
L	1 x 1000BASE-LX fiber optic (Single mode), 1x USB Ex e, 2x USB Ex i

(7) Module A

N	No additional interface module
1	1 x RS-232 Ex e
2	1 x RS-485 Ex e
3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D*, IDM-Z1-164-D* and base station IDMX61-B*, IDM-Z1-x61-B* and IDM-Z1-x64-B*
4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D* and IDM-Z1-264-D*
5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals
E	1 x 1000BASE-T LAN Ex e

(8) Module B

N	No additional interface module
1	1 x RS-232 Ex e
2	1 x RS-485 Ex e
3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D*, IDM-Z1-164-D* and base station IDMX61-B*, IDM-Z1-x61-B* and IDM-Z1-x64-B*
4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D* and IDM-Z1-264-D*
5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals
E	1 x 1000BASE-T LAN Ex e

(9) Computing Platform

P5-	Intel® Elkhart Lake x6425RE, 8-GB RAM, 240-GB SSD, Windows® IoT Enterprise LTSC 2021
P6-	Intel® Elkhart Lake x6425RE, 8-GB RAM, 480-GB SSD, Windows® IoT Enterprise LTSC 2021

(10)- Housing

NN-	No bezel, prepared for flush mount
S2-	Bezel; prepared for panel mounting or into AG1 housing

Type Code

(10)-	Housing
H2-	Installed into EX1 AG1 housing (SS304), front opening, for pedestal/ceiling/wall-arm

(11)	Options
N0	Standard, no options

Example:

RM-GXP	1100-	19S	N	1-	D-	E	N	N	P5-	S1-	N0
--------	-------	-----	---	----	----	---	---	---	-----	-----	----



Operator Workstation (PC)

VisuNet GXP PC Zone 2/22 (2020 Generation)

PC-GXP1200-22F-* -P3/P4*

- 21.5" (54.61 cm) display
- 16:9 aspect ratio widescreen formatting to match engineering stations
- PC solution with pre-installed Windows® operating system
- Lightweight design
- Full HD Resolution
- Completely modular system for easy field maintainability
- Flush or bezel mounting options
- IP66 rating for each individual component and entire system with housing
- Certified for ATEX and IECEx Zone 2/22
- UL listed for USA and Canada

VisuNet GXP PC Zone 2/22 (2020 Generation, Intel® Atom Apollo Lake Processor)



Function

The VisuNet GXP PC (PC-GXP1100-22F*/PC-GXP1200-22F*) is a lightweight modular operator workstation for use in hazardous locations according to ATEX and IECEx Zone 1/21 and Zone 2/22 as well as Class I and II, Division 2, and Class III.

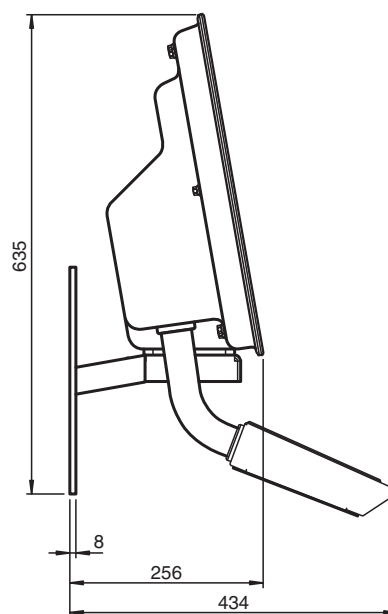
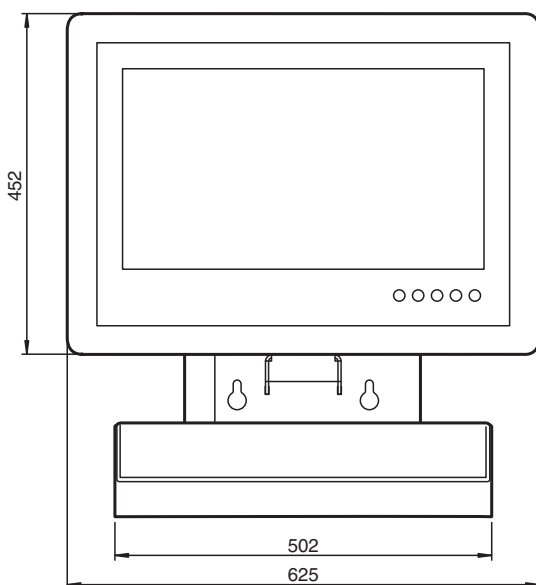
The system assembly consists of three core components that are fieldreplaceable by the customer.

The display unit (DPU1100-*/DPU1200-*) is a hazardous-location rated display panel with an optional 10 finger multitouch sensor. The display and touchsensor are optically bonded with the hardened front glass.

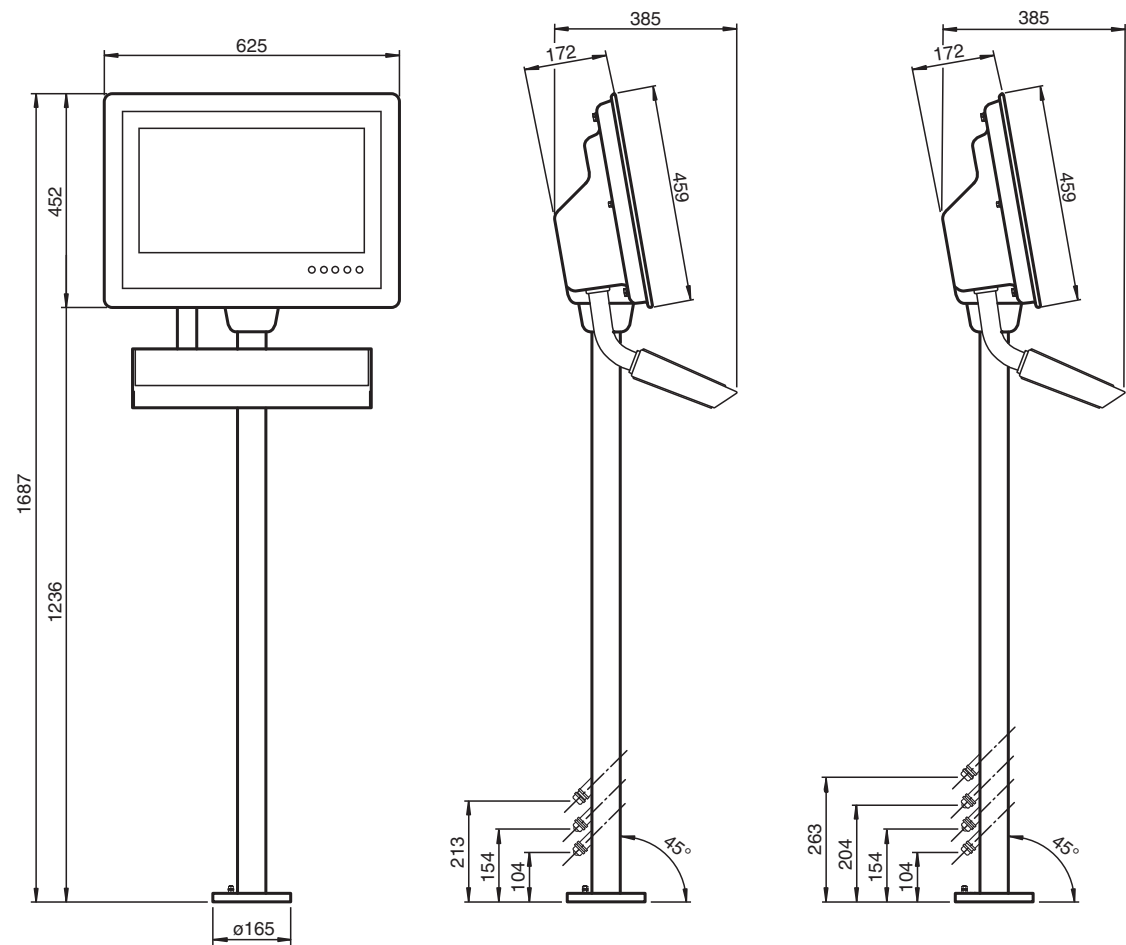
The PC unit (PCU1100-*/PCU1200-*) is a hazardous-location rated computing unit that runs a pre-installed Microsoft Windows operating system. The PC unit allows users to install individual software packages such as SCADA applications to visualize and control their automation application. The power supply units (PSU1100-*/PSU1200-*) are hazardous-location rated power supplies that provide the PCU and DPU devices with 24 V DC power.

As a standard mounting option, a bezel is available that allows the panel to be mounted into the system housing or into a cabinet (requires mounting kit). The panel can also be flush-mounted into a cabinet from the back with additional mounting brackets.

Dimensions



Dimensions



Technical Data

General specifications		
Type	Personal Computer	
Hardware		
Processor	Intel® Atom Apollo Lake E3940	
RAM		8 GB
Mass storage	240 GByte industrial grade SSD optional: 480 GByte SSD	
Supply		
Power consumption		
AC		115/230 V AC, 0.4 ... 0.7 A, 50/60 Hz
DC	18 ... 36 V DC , 1.5 ... 3 A	
Indicators/operating means		
Display		
Type		Liquid Crystal Display (LCD) with LED backlight
Screen diagonal	54.61 cm (21.5 inch)	
Resolution		1920 x 1080 pixels (Full HD) Aspect ratio 16:9
Color depth	24 bit (16.7 M) color	
Contrast		5000:1 (typically)
Brightness	300 cd/m² (nit)	
Reading angle		175° in all directions
Life span	back lamp life: 50.000 hrs typical half life , at 25 °C (77 °F)	
Input devices		
Touch screen	optional: projective capacitive; 10 finger multi-touch, glove friendly	

Technical Data

Keyboard		Foil keyboard with different pointing device options available (see EXTA4 datasheet)
Interface		
Interface type		Standard: 1 x Ethernet 100/1000BASE-TX (Ex e) or 1 x fiber optic 1000BASE-SX (Multimode) or 1 x fiber optic 1000BASE-LX (Singlemode), 1 x USB 2.0 (Ex e), 2 x USB 1.1 (Ex i; intended for Pepperl+Fuchs keyboard and mouse), 1 x DC or AC power in (via power supply unit) Optional: "interface 3": 1 x barcode reader interface for wired 1-D scanners IDM-160-D*, IDM-Z1-160-D* and base station IDMX61-B* and IDM-Z1-x61-B* (Ex i) "interface 4": 1 x barcode reader interface for wired 2-D Scanner IDM-Z1-260-D* (Ex i) "interface 5": 1 x RS-232 interface with Power Supply for miscellaneous devices and peripherals (Ex i) 1 x RS-232 (Ex e) 1 x RS-485 (Ex e) 1 x Ethernet 100/1000Base-TX (Ex e) Bluetooth v4.0, communication distance up to 30 m in open terrain, transmission power +8 dBm, transmission frequency 2.402 ... 2.48 GHz
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations) non-Bluetooth products only
Radio and telecommunication terminal equipment		
Directive 2014/53/EU		EN 301 328 V2.1.1 EN 301 489-1 V2.1.1 EN 301 489-17 V3.1.1 Bluetooth products only
RoHS		
Directive 2011/65/EU (RoHS)		EN 50581:2012-09
Software		
Operating system		Microsoft® Windows® 10 IoT Enterprise 2019 LTSC (x64)
Ambient conditions		
Operating temperature		-20 ... 50 °C (-4 ... 122 °F) Display might react sluggishly below 0 °C
Storage temperature		-20 ... 60 °C (-4 ... 140 °F)
Relative humidity		93% at 40°C, non-condensating, according to EN60068-2-78
Altitude		Operating altitude max. 2000 m
Shock resistance		18 shocks 15 g , 11 ms all axis, IEC 60068-2-27
Vibration resistance		10 ... 150 Hz, +/- 0.075 mm , 1g, 10 cycles per axis according to EN60068-2-6
Mechanical specifications		
Degree of protection		IP66 (individual components and entire system with housing)
Material		Internal: Panel: anodized aluminum (TCU, PCU, PSU), powder coated aluminum (DPU) External: Bezel: stainless steel AISI 304 (1.4301) System housing H4: stainless steel AISI 304 (1.4301), bead blasted, typical surface roughness Ra = 1.6 µm
Installation		Flush-mount installation (requires customized mounting kit) Panel-mount installation into system housing with bezel Panel-mount installation into cabinet with Bezel and standard mounting kit
Mass		Panel (DPU with bezel, TCU, PSU DC): approx. 17.5 kg Panel (DPU with bezel, TCU, PSU AC): approx. 18 kg System housing: approx. 11 kg
Dimensions		Panel (DPU with bezel, TCU, PSU DC): 625 mm x 459 mm x 120 mm Panel (DPU with bezel, TCU, PSU AC): 625 mm x 459 mm x 137 mm Panel with system housing: 625 mm x 459 mm x 173 mm Panel cut-out dimensions: 583 mm x 417 mm (installation surface)
Data for application in connection with hazardous areas		
EU-type examination certificate		BVS 17 ATEX E 037 X

Technical Data

Marking	Ⓔ II 3G Ex ec [ib] q IIC T4 IP66 Gc Ⓔ II 3D Ex tc [ib] IIIC T85 °C IP66 Dc	
Directive conformity		
Directive 2014/34/EU	EN 60079-0:2012+A11:2013, EN 60079-7:2015, EN 60079-11:2012, EN 60079-31:2014	
International approvals		
UL approval	E492874	
Approved for		Class I, Division 2, Groups A, B, C, D T4; Zone 2, Group IIC T4 Class II, Division 2, Groups F, G T4; Zone 22, Group IIIB T85 Class III; Zone 22, Group IIIA T85
IECEx approval	IECEx BVS 17.0029X	
Approved for		Ex ec [ib] q IIC T4 IP66 Gc Ex tc [ib] IIIC T85 °C IP66 Dc
Standards	IEC 60079-0:2011, IEC 60079-7:2015, IEC 60079-11:2011, IEC 60079-31:2013	

Type Code

Model	Display Unit	Front Glass & Touch	Interfaces	Power Supply Unit	Interfaces	Module A	Module B	Computing Platform	Housing	Options	
Model											
PC-GXP1100-	VisuNet GXP Personal Computer System; Zone 1/21										
PC-GXP1200-	VisuNet GXP Personal Computer System; Zone 2/22										
	Display Unit										
	22F	21.5 inch (16:9), Full HD (1920 x 1080)									
		Front Glass & Touch									
	N	Anti-glare security glass, no touch									
	C	Anti-glare security glass, projective capacitive 10-finger multitouch									
		Interfaces									
	1-	5 x capacitive system front keys									
	2-	5 x capacitive system front keys and Bluetooth interface									
		Power Supply Unit									
	D-	18 ... 36 V DC									
	A-	115/230 V AC, 50/60 Hz									
		Interfaces									
	E	1 x 1000BASE-T LAN Ex e, 1x USB Ex e, 2x USB Ex i									
	S	1 x 1000BASE-SX fiber optic (Multimode), 1x USB Ex e, 2x USB Ex i									
	L	1 x 1000BASE-LX fiber optic (Singlemode), 1x USB Ex e, 2x USB Ex i									
		Module A									
	N	No additional interface module									
	1	1 x RS-232 Ex e									
	2	1 x RS-485 Ex e									
	3	1 x RS-232 Ex i for barcode readers IDM160-* and IDMX61-B-*									
	4	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D-* and base station IDMX61-B-* and IDM-Z1-x61-B-*									
	5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals									
	E	1 x 1000BASE-T LAN Ex e									
		Module B									
	N	No additional interface module									
	1	1 x RS-232 Ex e									
	2	1 x RS-485 Ex e									
	3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D-* and base station IDMX61-B-* and IDM-Z1-x61-B-*									
	4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D-*									
	5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals									
	E	1 x 1000BASE-T LAN Ex e									
		Computing Platform									
	P3-	Intel® Atom Apollo Lake E3940, 8 GB RAM, 240 GB SSD, Windows 10 IoT Enterprise LTSC x64									
	P4-	Intel® Atom Apollo Lake E3940, 8 GB RAM, 480 GB SSD, Windows 10 IoT Enterprise LTSC x64									
		Housing									
	NN-	No bezel, prepared for flush mounting									
	S1-	Bezel; prepared for panel mounting or into AG-XX00 housing									
	H4-	Installed into GXP Housing AG-XX00 (SS304), front opening, surface finish 1,6µm bead blasted									
		Options									
	N0-	Standard, no options									

Example: PC-GXP1100-22FN1-D-ENNP1-S2-N0



Operator Workstation (PC)

VisuNet GXP PC Zone 2/22 (2020 Generation)

PC-GXP1200-19S-* -P3/P4*

- 19 in (48 cm) display
- PC solution with pre-installed Windows® operating system
- Lightweight design
- Completely modular system for easy field maintainability
- Flush or bezel mounting options
- IP66 rating for each individual component and entire system with housing
- Certified for ATEX and IECEx Zone 2/22
- UL listed for USA and Canada

VisuNet GXP PC Zone 2/22 (2020 Generation, Intel® Atom Apollo Lake Processor)



Function

The VisuNet GXP PC (PC-GXP1100- 19S*/PC-GXP1200-19S*) is a lightweight modular operator workstation for use in hazardous locations according to ATEX and IECEx Zone 1/21 and Zone 2/22 as well as Class I and II, Division 2, and Class III.

The system assembly consists of three core components that are fieldreplaceable by the customer.

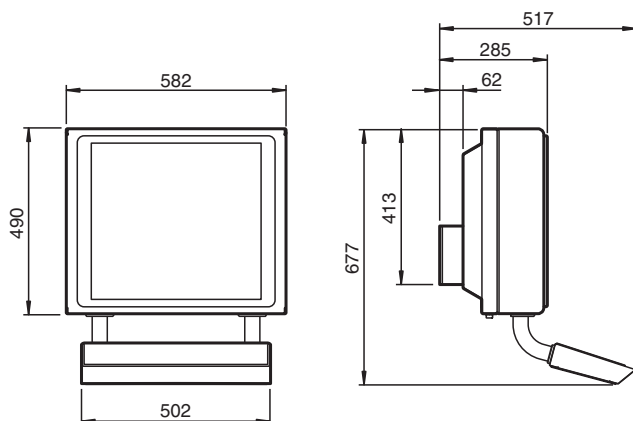
The display unit (DPU1100-*/DPU1200-*) is a hazardous-location rated display panel with an optional 10 finger multitouch sensor. The display and touchsensor are optically bonded with the hardened front glass.

The PC unit (PCU1100-*/PCU1200-*) is a hazardous-location rated computing unit that runs a pre-installed Microsoft Windows operating system. The PC unit allows users to install individual software packages such as SCADA applications to visualize and control their automation application.

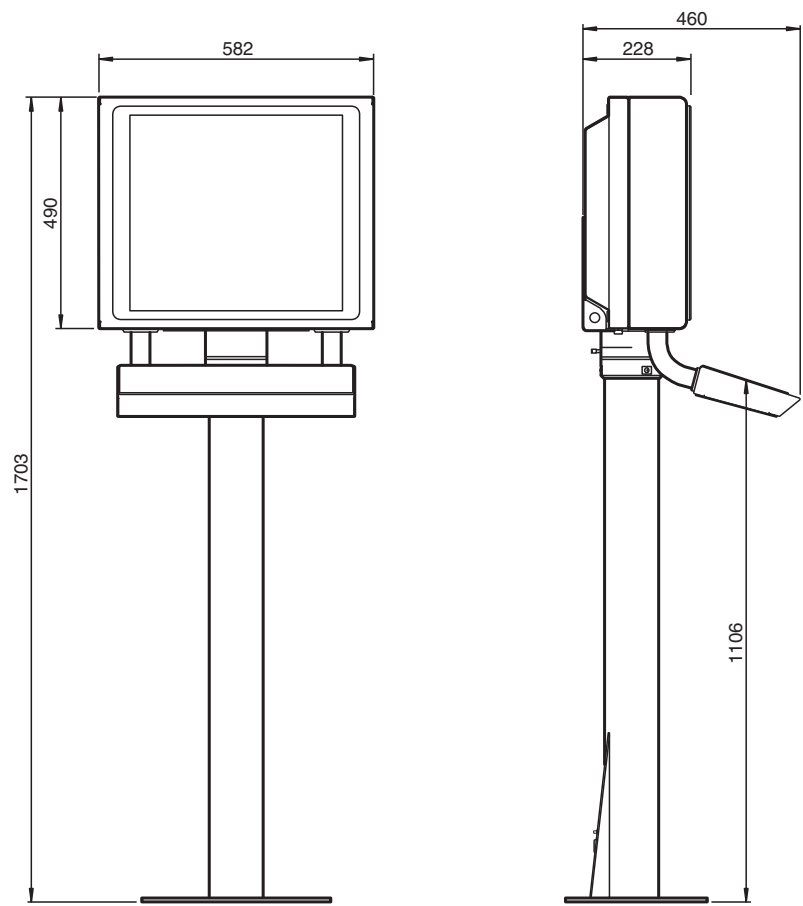
The power supply units (PSU1100-*/ PSU1200-*) are hazardous-location rated power supplies that provide the PCU and DPU devices with 24 V DC power.

As a standard mounting option, a bezel is available that allows the panel to be mounted into the system housing or into a cabinet (requires mounting kit). The panel can also be flush-mounted into a cabinet from the back with additional mounting brackets.

Dimensions



Dimensions



Technical Data

General specifications		
Type	Personal Computer	
Hardware		
Processor	Intel® Atom Apollo Lake E3940	
RAM		8 GB
Mass storage	240 GByte industrial grade SSD optional: 480 GByte SSD	
Supply		
Power consumption		
AC		115/230 V AC, 0.4 ... 0.7 A, 50/60 Hz
DC	18 ... 36 V DC , 1.5 ... 3 A	
Indicators/operating means		
Display		
Type		Liquid Crystal Display (LCD) with LED backlight
Screen diagonal	48.26 cm (19 inch)	
Resolution		1280 x 1024 (SXGA) , Aspect ratio 5:4
Color depth	24 bit (16.7 M) color	
Contrast		1000:1
Brightness	450 cd/m² (nit)	
Reading angle		170° horizontal 160° vertical
Life span	back lamp life: 50.000 hrs typical half life , at 25 °C (77 °F)	
Input devices		
Touch screen	optional: projective capacitive; 10 finger multi-touch, glove friendly	
Keyboard		Foil keyboard with different pointing device options available (see EXTA4 datasheet)

Technical Data

Interface

Interface type		Standard: 1 x Ethernet 100/1000BASE-TX (Ex e) or 1 x fiber optic 1000BASE-SX (Multimode) or 1 x fiber optic 1000BASE-LX (Singlemode), 1 x USB 2.0 (Ex e), 2 x USB 1.1 (Ex i; intended for Pepperl+Fuchs keyboard and mouse), 1 x DC or AC power in (via power supply unit) Optional: "interface 3": 1 x barcode reader interface for wired 1-D scanners IDM-160-D*, IDM-Z1-160-D-* and base station IDMx61-B-* and IDM-Z1-x61-B-* (Ex i) "interface 4": 1 x barcode reader interface for wired 2-D Scanner IDM-Z1-260-D-* (Ex i) "interface 5": 1 x RS-232 interface with Power Supply for miscellaneous devices and peripherals (Ex i) 1 x RS-232 (Ex e) 1 x RS-485 (Ex e) 1 x Ethernet 100/1000Base-TX (Ex e) Bluetooth v4.0, communication distance up to 30 m in open terrain, transmission power +8 dBm, transmission frequency 2.402 ... 2.48 GHz
----------------	--	--

Directive conformity

Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations) non-Bluetooth products only
Radio and telecommunication terminal equipment		
Directive 2014/53/EU		EN 301 328 V2.1.1 EN 301 489-1 V2.1.1 EN 301 489-17 V3.1.1 Bluetooth products only
RoHS		
Directive 2011/65/EU (RoHS)		EN 50581:2012-09

Software

Operating system		Microsoft® Windows® 10 IoT Enterprise 2019 LTSC (x64)
------------------	--	---

Ambient conditions

Operating temperature		-20 ... 50 °C (-4 ... 122 °F)
Storage temperature		-20 ... 60 °C (-4 ... 140 °F)
Relative humidity		93% at 40°C, non-condensating, according to EN60068-2-78
Altitude		Operating altitude max. 2000 m
Shock resistance		18 shocks 15 g , 11 ms all axis, IEC 60068-2-27
Vibration resistance		10 ... 150 Hz, +/- 0.075 mm , 1g, 10 cycles per axis according to EN60068-2-6

Mechanical specifications

Degree of protection		IP66 (individual components and entire system with housing)
Material		Internal: Panel: anodized aluminum (TCU, PSU), powder coated aluminum (DPU) External: Bezel: stainless steel AISI 304 (1.4301) System housing: stainless steel AISI 304 (1.4301), bead blasted, typical surface roughness Ra = 1.6 µm
Installation		Flush-mount installation (requires customized mounting kit) Panel-mount installation into system housing with bezel Panel-mount installation into cabinet with Bezel and standard mounting kit
Mass		panel with DC: 22 kg , panel with AC: 23 kg , system housing AG1: 19 kg
Dimensions		panel with DC: 524 mm x 453 mm x 120 mm panel with AC: 524 mm x 453 mm x 137 mm panel with AG1 housing: 582 mm x 490 mm x 224 mm

Data for application in connection with hazardous areas

EU-type examination certificate		BVS 17 ATEX E 037 X
Marking		Ⓔ II 3G Ex ec [ib] q IIC T4 IP66 Gc Ⓔ II 3D Ex tc [ib] IIIC T85 °C IP66 Dc
Directive conformity		
Directive 2014/34/EU		EN 60079-0:2012+A11:2013, EN 60079-7:2015, EN 60079-11:2012, EN 60079-31:2014

Technical Data

International approvals		
UL approval		E492874
Approved for		Class I, Division 2, Groups A, B, C, D T4; Zone 2, Group IIC T4 Class II, Division 2, Groups F, G T4; Zone 22, Group IIIB T85 Class III; Zone 22, Group IIIA T85
IECEx approval		IECEx BVS 17.0029X
Approved for		Ex ec [ib] q IIC T4 IP66 Gc Ex tc [ib] IIIC T85 °C IP66 Dc
Standards		IEC 60079-0:2011, IEC 60079-7:2015, IEC 60079-11:2011, IEC 60079-31:2013

Type Code

Model	Display Unit	Front Glass & Touch	Interfaces	Power Supply Unit	Interfaces	Module A	Module B	Computing Platform	Housing	Options	
Model											
PC-GXP1100-	VisuNet GXP Personal Computer System; Zone 1/21										
PC-GXP1200-	VisuNet GXP Personal Computer System; Zone 2/22										
	Display Unit										
	19S	19 inch, SXGA (1280 x 1024)									
		Front Glass & Touch									
	N	Anti-glare security glass, no touch									
	C	Anti-glare security glass, projective capacitive 10-finger multitouch									
		Interfaces									
	1-	5 x capacitive system front keys									
	2-	5 x capacitive system front keys and Bluetooth interface									
		Power Supply Unit									
	D-	18 ... 36 V DC									
	A-	115/230 V AC, 50/60 Hz									
		Interfaces									
	E	1 x 1000BASE-T LAN Ex e, 1x USB Ex e, 2x USB Ex i									
	S	1 x 1000BASE-SX fiber optic (Multimode), 1x USB Ex e, 2x USB Ex i									
	L	1 x 1000BASE-LX fiber optic (Singlemode), 1x USB Ex e, 2x USB Ex i									
		Module A									
	N	No additional interface module									
	1	1 x RS-232 Ex e									
	2	1 x RS-485 Ex e									
	3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D-* and base station IDMX61-B-* and IDM-Z1-x61-B-*									
	4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D-*									
	5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals									
	E	1 x 1000BASE-T LAN Ex e									
		Module B									
	N	No additional interface module									
	1	1 x RS-232 Ex e									
	2	1 x RS-485 Ex e									
	3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D-* and base station IDMX61-B-* and IDM-Z1-x61-B-*									
	4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D-*									
	5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals									
	E	1 x 1000BASE-T LAN Ex e									
		Computing Platform									
	P3-	Intel® Atom Apollo Lake E3940, 8 GB RAM, 240 GB SSD, Windows 10 IoT Enterprise LTSC x64									
	P4-	Intel® Atom Apollo Lake E3940, 8 GB RAM, 480 GB SSD, Windows 10 IoT Enterprise LTSC x64									
		Housing									
	NN-	No bezel, prepared for flush mounting									
	S2-	Bezel; prepared for panel mounting or into AG1 housing									
	H2-	Installed into EX1 AG1 housing (SS304), front opening, for pedestal/ceiling/wall-arm									
		Options									
	N0-	Standard, no options									

Example: PC-GXP1100-19SN1-D-ENNP1-S2-N0



Operator Workstation (PC)

VisuNet GXP PC Zone 1/21 (2020 Generation)

PC-GXP1100-22F-* -P3/P4*

- 21.5" (54.61 cm) display
- 16:9 aspect ratio widescreen formatting to match engineering stations
- PC solution with pre-installed Windows® operating system
- Lightweight design
- Full HD Resolution
- Completely modular system for easy field maintainability
- Flush or bezel mounting options
- IP66 rating for each individual component and entire system with housing
- Certified for ATEX and IECEx Zone 1/21
- UL listed for USA and Canada

VisuNet GXP PC Zone 1/21 (2020 Generation, Intel® Atom Apollo Lake Processor)



Function

The VisuNet GXP PC (PC-GXP1100- 22F*/PC-GXP1200-22F*) is a lightweight modular operator workstation for use in hazardous locations according to ATEX and IECEx Zone 1/21 as well as Class I and II, Division 2, and Class III. Certification for Class I, Zone 2; Class II, Zone 22; and Class III, Zone 22 is also available.

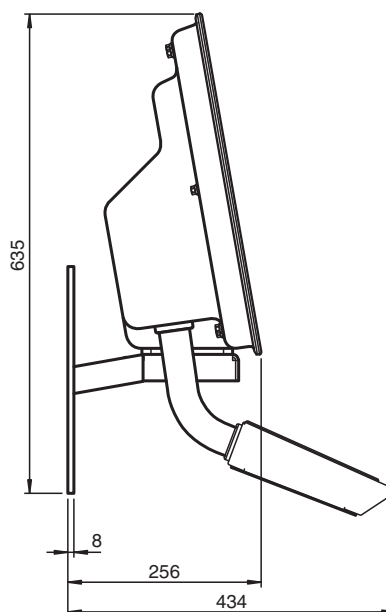
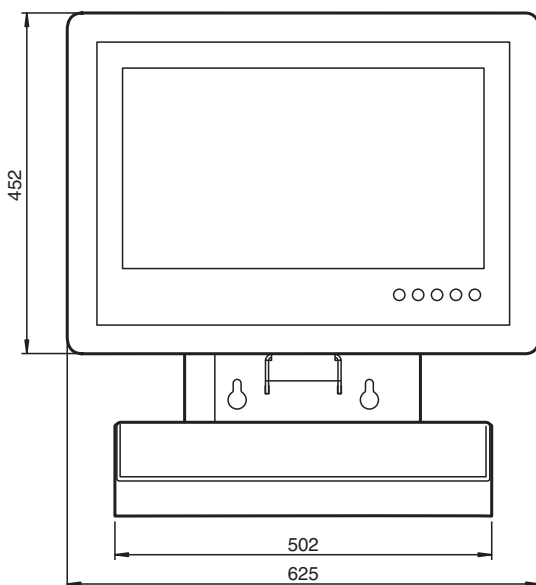
The system assembly consists of three core components that are fieldreplaceable by the customer.

The display unit (DPU1100-*/DPU1200-*) is a hazardous-location rated display panel with an optional 10 finger multitouch sensor. The display and touchsensor are optically bonded with the hardened front glass.

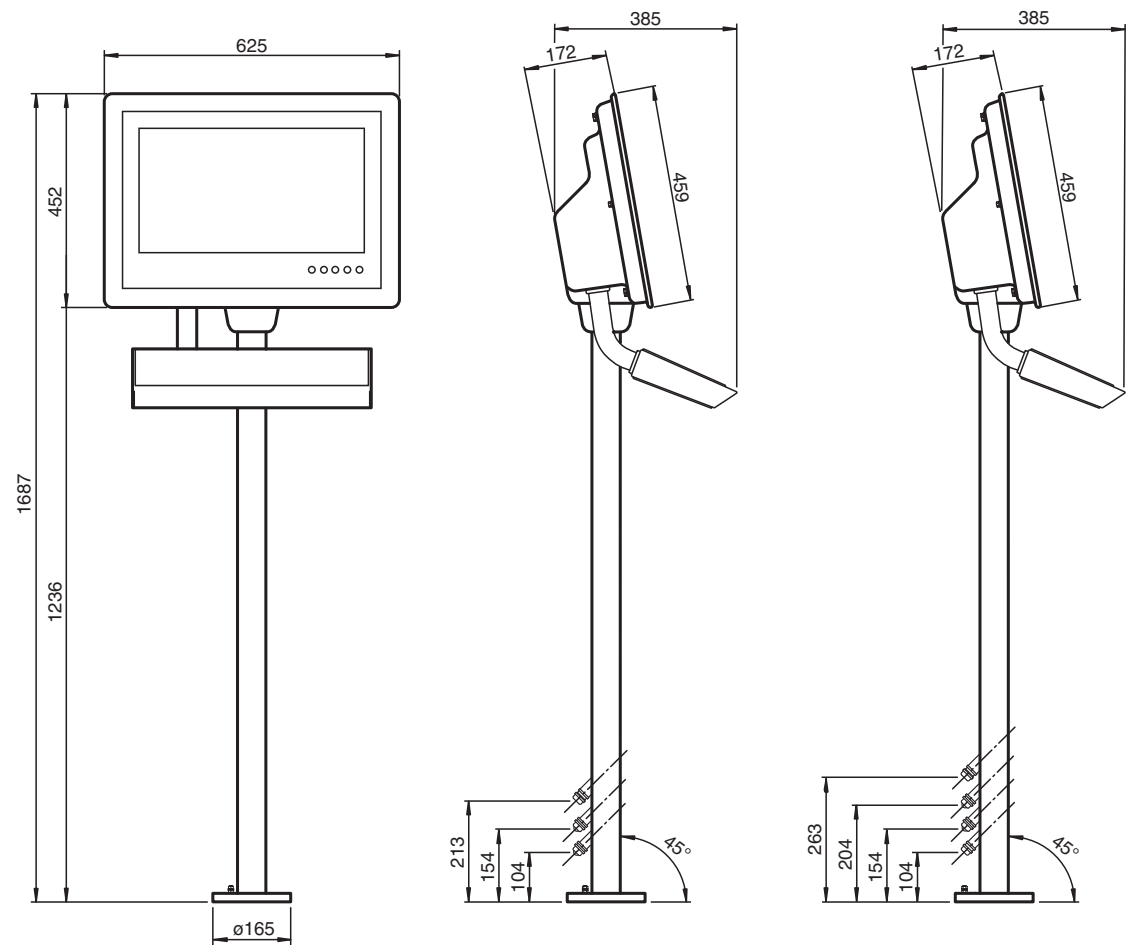
The PC unit (PCU1100-*/PCU1200-*) is a hazardous-location rated computing unit that runs a pre-installed Microsoft Windows operating system. The PC unit allows users to install individual software packages such as SCADA applications to visualize and control their automation application. The power supply units (PSU1100-*/ PSU1200-*) are hazardous-location rated power supplies that provide the PCU and DPU devices with 24 V DC power.

As a standard mounting option, a bezel is available that allows the panel to be mounted into the system housing or into a cabinet (requires mounting kit). The panel can also be flush-mounted into a cabinet from the back with additional mounting brackets.

Dimensions



Dimensions



Technical Data

General specifications		
Type	Personal Computer	
Hardware		
Processor	Intel® Atom Apollo Lake E3940	
RAM		8 GB
Mass storage	240 GByte industrial grade SSD optional: 480 GByte SSD	
Supply		
Power consumption		
AC		115/230 V AC, 0.4 ... 0.7 A, 50/60 Hz
DC	18 ... 36 V DC , 1.5 ... 3 A	
Indicators/operating means		
Display		
Type		Liquid Crystal Display (LCD) with LED backlight
Screen diagonal	54.61 cm (21.5 inch)	
Resolution		1920 x 1080 pixels (Full HD) Aspect ratio 16:9
Color depth	24 bit (16.7 M) color	
Contrast		5000:1 (typically)
Brightness	300 cd/m² (nit)	
Reading angle		175° in all directions
Life span	back lamp life: 50.000 hrs typical half life , at 25 °C (77 °F)	
Input devices		
Touch screen	optional: projective capacitive; 10 finger multi-touch, glove friendly	

Technical Data

Keyboard		Foil keyboard with different pointing device options available (see EXTA4 datasheet)
Interface		
Interface type		Standard: 1 x Ethernet 100/1000BASE-TX (Ex e) or 1 x fiber optic 1000BASE-SX (Multimode) or 1 x fiber optic 1000BASE-LX (Singlemode), 1 x USB 2.0 (Ex e), 2 x USB 1.1 (Ex i; intended for Pepperl+Fuchs keyboard and mouse), 1 x DC or AC power in (via power supply unit) Optional: "interface 3": 1 x barcode reader interface for wired 1-D scanners IDM-160-D*, IDM-Z1-160-D-* and base station IDMX61-B-* and IDM-Z1-x61-B-* (Ex i) "interface 4": 1 x barcode reader interface for wired 2-D Scanner IDM-Z1-260-D-* (Ex i) "interface 5": 1 x RS-232 interface with Power Supply for miscellaneous devices and peripherals (Ex i) 1 x RS-232 (Ex e) 1 x RS-485 (Ex e) 1 x Ethernet 100/1000Base-TX (Ex e) Bluetooth v4.0, communication distance up to 30 m in open terrain, transmission power +8 dBm, transmission frequency 2.402 ... 2.48 GHz
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations) non-Bluetooth products only
Radio and telecommunication terminal equipment		
Directive 2014/53/EU		EN 301 328 V2.1.1 EN 301 489-1 V2.1.1 EN 301 489-17 V3.1.1 Bluetooth products only
RoHS		
Directive 2011/65/EU (RoHS)		EN 50581:2012-09
Software		
Operating system		Microsoft® Windows® 10 IoT Enterprise 2019 LTSC (x64)
Ambient conditions		
Operating temperature		-20 ... 50 °C (-4 ... 122 °F) Display might react sluggishly below 0 °C
Storage temperature		-20 ... 60 °C (-4 ... 140 °F)
Relative humidity		93% at 40°C, non-condensating, according to EN60068-2-78
Altitude		Operating altitude max. 2000 m
Shock resistance		18 shocks 15 g , 11 ms all axis, IEC 60068-2-27
Vibration resistance		10 ... 150 Hz, +/- 0.075 mm , 1g, 10 cycles per axis according to EN60068-2-6
Mechanical specifications		
Degree of protection		IP66 (individual components and entire system with housing)
Material		Internal: Panel: anodized aluminum (TCU, PCU, PSU), powder coated aluminum (DPU) External: Bezel: stainless steel AISI 304 (1.4301) System housing H4: stainless steel AISI 304 (1.4301), bead blasted, typical surface roughness Ra = 1.6 µm
Installation		Flush-mount installation (requires customized mounting kit) Panel-mount installation into system housing with bezel Panel-mount installation into cabinet with Bezel and standard mounting kit
Mass		Panel (DPU with bezel, TCU, PSU DC): approx. 23 kg Panel (DPU with bezel, TCU, PSU AC): approx. 24 kg System housing (AG-XX00): approx. 11 kg
Dimensions		Panel (DPU with bezel, TCU, PSU DC): 625 mm x 459 mm x 120 mm Panel (DPU with bezel, TCU, PSU AC): 625 mm x 459 mm x 137 mm Panel with system housing: 625 mm x 459 mm x 173 mm Panel cut-out dimensions: 583 mm x 417 mm (installation surface)
Data for application in connection with hazardous areas		
EU-type examination certificate		BVS 17 ATEX E 036 X

Technical Data

Marking	Ⓜ II 2G Ex eb q ib [ib] IIC T4 IP66 Gb Ⓜ II 2D Ex tb [ib] IIIC T85°C IP66 Db	
Directive conformity		
Directive 2014/34/EU	EN 60079-0:2012+A11:2013, EN 60079-5:2015, EN 60079-7:2015, EN 60079-11:2012, EN 60079-31:2014	
International approvals		
UL approval	E492874	
Approved for		Class I, Division 2, Groups A, B, C, D T4; Zone 2, Group IIC T4 Class II, Division 2, Groups F, G T4; Zone 22, Group IIIB T85 Class III; Zone 22, Group IIIA T85
IECEx approval	IECEx BVS 17.0029X	
Approved for		Ex eb q ib [ib] IIC T4 IP66 Gb Ex tb [ib] IIIC T85°C IP66 Db
Standards	IEC 60079-0:2011, IEC 60079-5:2015, IEC 60079-7:2015, IEC 60079-11:2011, IEC 60079-31:2013	

Type Code

Model	Display Unit	Front Glass & Touch	Interfaces	Power Supply Unit	Interfaces	Module A	Module B	Computing Platform	Housing	Options	
Model											
PC-GXP1100-	VisuNet GXP Personal Computer System; Zone 1/21										
PC-GXP1200-	VisuNet GXP Personal Computer System; Zone 2/22										
	Display Unit										
	22F	21.5 inch (16:9), Full HD (1920 x 1080)									
	Front Glass & Touch										
	N	Anti-glare security glass, no touch									
	C	Anti-glare security glass, projective capacitive 10-finger multitouch									
	Interfaces										
	1-	5 x capacitive system front keys									
	2-	5 x capacitive system front keys and Bluetooth interface									
	Power Supply Unit										
	D-	18 ... 36 V DC									
	A-	115/230 V AC, 50/60 Hz									
	Interfaces										
	E	1 x 1000BASE-T LAN Ex e, 1x USB Ex e, 2x USB Ex i									
	S	1 x 1000BASE-SX fiber optic (Multimode), 1x USB Ex e, 2x USB Ex i									
	L	1 x 1000BASE-LX fiber optic (Singlemode), 1x USB Ex e, 2x USB Ex i									
	Module A										
	N	No additional interface module									
	1	1 x RS-232 Ex e									
	2	1 x RS-485 Ex e									
	3	1 x RS-232 Ex i for barcode readers IDM160-* and IDMx61-B-*									
	4	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D-* and base station IDMx61-B-* and IDM-Z1-x61-B-*									
	5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals									
	E	1 x 1000BASE-T LAN Ex e									
	Module B										
	N	No additional interface module									
	1	1 x RS-232 Ex e									
	2	1 x RS-485 Ex e									
	3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D-* and base station IDMx61-B-* and IDM-Z1-x61-B-*									
	4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D-*									
	5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals									
	E	1 x 1000BASE-T LAN Ex e									
	Computing Platform										
	P3-	Intel® Atom Apollo Lake E3940, 8 GB RAM, 240 GB SSD, Windows 10 IoT Enterprise LTSC x64									
	P4-	Intel® Atom Apollo Lake E3940, 8 GB RAM, 480 GB SSD, Windows 10 IoT Enterprise LTSC x64									
	Housing										
	NN-	No bezel, prepared for flush mounting									
	S1-	Bezel; prepared for panel mounting or into AG-XX00 housing									
	H4-	Installed into GXP Housing AG-XX00 (SS304), front opening, surface finish 1,6µm bead blasted									
	Options										
	N0-	Standard, no options									

Example: PC-GXP1100-22FN1-D-ENNP1-S2-N0



Operator Workstation (RM)

VisuNet GXP Remote Monitor Zone 1/21 (2020 Generation)

RM-GXP1100-22F-*-T3*

- 21.5" (54.61 cm) display
- 16:9 aspect ratio widescreen formatting to match engineering stations
- Thin Client solution (with VisuNet RM Shell firmware)
- Lightweight design
- Full HD Resolution
- Completely modular system for easy field maintainability
- Flush or bezel mounting options
- IP66 rating for each individual component and entire system with housing
- Certified for ATEX and IECEx Zone 1/21
- UL listed for USA and Canada

VisuNet GXP Remote Monitor Zone 1/21 (2020 Generation, Intel® Atom Apollo Lake Processor)



Function

The VisuNet GXP Remote Monitor (RMGXP1100- 22F*/RM-GXP1200-22F*) is a lightweight modular operator workstation for use in hazardous locations according to ATEX & IECEx Zone 1/21 as well as Class I and II, Division 2, and Class III. Certification for Class I, Zone 2; Class II, Zone 22; and Class III, Zone 22 is also available.

The system assembly consists of three core components that are fieldreplaceable by the customer.

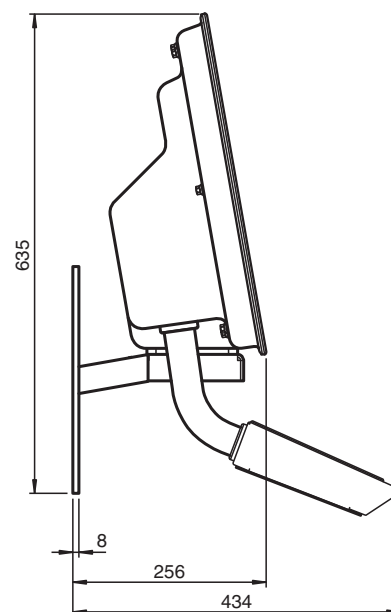
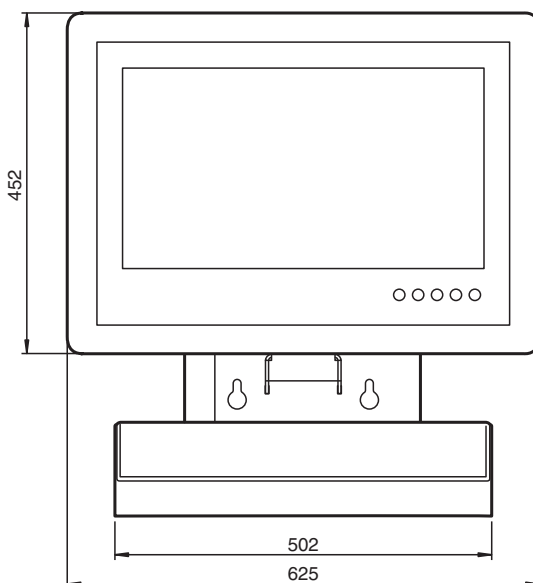
The display unit (DPU1100-*/DPU1200-*) is a hazardous-location rated display panel with an optional 10 finger multitouch sensor. The display and touchsensor are optically bonded with the hardened front glass.

The thin client unit (TCU1100-*/TCU1200-*) is a hazardous-location rated computing unit that runs the latest Pepperl+Fuchs RM Shell firmware. The TCU allows connection to various host systems in the safe area, using standard Ethernet technology.

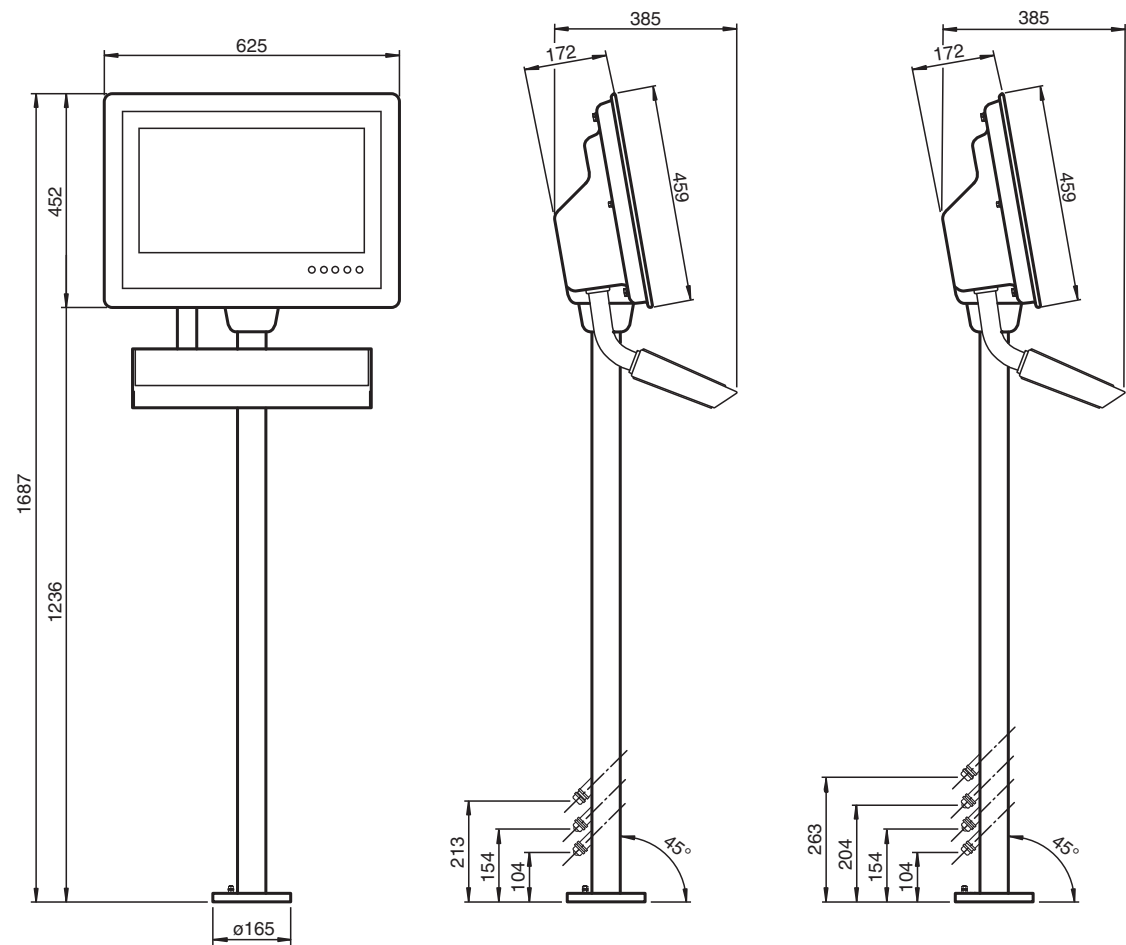
The power supply units (PSU1100-*/PSU1200-*) are hazardous-location rated power supplies, providing the TCU and DPU devices with 24 V DC power.

As a standard mounting option, a bezel is available that allows the panel to be mounted into the system housing or into a cabinet (requires mounting kit). The panel can also be flush-mounted into a cabinet from the back with additional mounting brackets.

Dimensions



Dimensions



Technical Data

General specifications		
Type	Remote Monitor	
Hardware		
Processor	Intel® Atom Apollo Lake E3930 Alternative: Intel® Atom™ Atom Apollo Lake E3940*	
RAM		4 GB
Mass storage	32 GByte industrial grade MLC SSD	
Supply		
Power consumption		
AC		115/230 V AC, 0.4 ... 0.7 A, 50/60 Hz
DC	18 ... 36 V DC , 1.5 ... 3 A	
Indicators/operating means		
Display		
Type		Liquid Crystal Display (LCD) with LED backlight
Screen diagonal	54.61 cm (21.5 inch)	
Resolution		1920 x 1080 pixels (Full HD) Aspect ratio 16:9
Color depth	24 bit (16.7 M) color	
Contrast		5000:1 (typically)
Brightness	300 cd/m² (nit)	
Reading angle		175° in all directions
Life span	back lamp life: 50.000 hrs typical half life , at 25 °C (77 °F)	
Input devices		
Touch screen	optional: projective capacitive; 10 finger multi-touch, glove friendly	

Technical Data

Keyboard		Foil keyboard with different pointing device options available (see EXTA4 datasheet)
Interface		
Interface type		Standard: 1 x Ethernet 100/1000BASE-TX (Ex e) or 1 x fiber optic 1000BASE-SX (Multimode) or 1 x fiber optic 1000BASE-LX (Singlemode), 1 x USB 2.0 (Ex e), 2 x USB 1.1 (Ex i; intended for Pepperl+Fuchs keyboard and mouse), 1 x DC or AC power in (via power supply unit) Optional: "interface 3": 1 x barcode reader interface for wired 1-D scanners IDM-160-D*, IDM-Z1-160-D-* and base station IDMX61-B-* and IDM-Z1-x61-B-* (Ex i) "interface 4": 1 x barcode reader interface for wired 2-D Scanner IDM-Z1-260-D-* (Ex i) "interface 5": 1 x RS-232 interface with Power Supply for miscellaneous devices and peripherals (Ex i) 1 x RS-232 (Ex e) 1 x RS-485 (Ex e) 1 x Ethernet 100/1000Base-TX (Ex e) Bluetooth v4.0, communication distance up to 30 m in open terrain, transmission power +8 dBm, transmission frequency 2.402 ... 2.48 GHz
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations) non-Bluetooth products only
Radio and telecommunication terminal equipment		
Directive 2014/53/EU		EN 301 328 V2.1.1 EN 301 489-1 V2.1.1 EN 301 489-17 V3.1.1 Bluetooth products only
RoHS		
Directive 2011/65/EU (RoHS)		EN 50581:2012-09
Software		
Operating system		VisuNet RM Shell 5.x (based on Microsoft® Windows® 10 IoT Enterprise 2019 LTSC (x64))
Ambient conditions		
Operating temperature		-20 ... 50 °C (-4 ... 122 °F) Display might react sluggishly below 0 °C
Storage temperature		-20 ... 60 °C (-4 ... 140 °F)
Relative humidity		93% at 40°C, non-condensating, according to EN60068-2-78
Altitude		Operating altitude max. 2000 m
Shock resistance		18 shocks 15 g , 11 ms all axis, IEC 60068-2-27
Vibration resistance		10 ... 150 Hz, +/- 0.075 mm , 1g, 10 cycles per axis according to EN60068-2-6
Mechanical specifications		
Degree of protection		IP66 (individual components and entire system with housing)
Material		Internal: Panel: anodized aluminum (TCU, PCU, PSU), powder coated aluminum (DPU) External: Bezel: stainless steel AISI 304 (1.4301) System housing H4: stainless steel AISI 304 (1.4301), bead blasted, typical surface roughness Ra = 1.6 µm
Installation		Flush-mount installation (requires customized mounting kit) Panel-mount installation into system housing with bezel Panel-mount installation into cabinet with Bezel and standard mounting kit
Mass		Panel (DPU with bezel, TCU, PSU DC): approx. 23 kg Panel (DPU with bezel, TCU, PSU AC): approx. 24 kg System housing (AG-XX00): approx. 11 kg
Dimensions		Panel (DPU with bezel, TCU, PSU DC): 625 mm x 459 mm x 120 mm Panel (DPU with bezel, TCU, PSU AC): 625 mm x 459 mm x 137 mm Panel with system housing: 625 mm x 459 mm x 173 mm Panel cut-out dimensions: 583 mm x 417 mm (installation surface)
Note		* see nameplate: 2021 alternative, processor cannot be selected
Data for application in connection with hazardous areas		

Technical Data

EU-type examination certificate		BVS 17 ATEX E 036 X
Marking		Ⓔ II 2G Ex eb q ib [ib] IIC T4 IP66 Gb Ⓔ II 2D Ex tb [ib] IIIC T85°C IP66 Db
Directive conformity		
Directive 2014/34/EU		EN 60079-0:2012+A11:2013, EN 60079-5:2015, EN 60079-7:2015, EN 60079-11:2012, EN 60079-31:2014
International approvals		
UL approval		E492874
Approved for		Class I, Division 2, Groups A, B, C, D T4; Zone 2, Group IIC T4 Class II, Division 2, Groups F, G T4; Zone 22, Group IIIB T85 Class III; Zone 22, Group IIIA T85
IECEx approval		IECEx BVS 17.0029X
Approved for		Ex eb q ib [ib] IIC T4 IP66 Gb Ex tb [ib] IIIC T85°C IP66 Db
Standards		IEC 60079-0:2011, IEC 60079-5:2015, IEC 60079-7:2015, IEC 60079-11:2011, IEC 60079-31:2013

Type Code

VisuNet RM-GXP1100-22F*/RM-GXP1200-22F*

Model	Display Unit	Front Glass & Touch	Interfaces	Power Supply Unit	Interfaces	Module A	Module B	Computing Platform	Housing	Options	
Model											
RM-GXP1100-	VisuNet GXP Remote Monitor System; Zone 1/21										
RM-GXP1200-	VisuNet GXP Remote Monitor System; Zone 2/22										
	Display Unit										
	22F	21.5 inch (16:9), Full HD (1920 x 1080 pixel)									
	Front Glass & Touch										
	N	Anti-glare security glass, no touch									
	C	Anti-glare security glass, projective capacitive 10-finger multitouch									
	Interfaces										
	1-	5 x capacitive system front keys									
	2-	5 x capacitive system front keys and Bluetooth interface									
	Power Supply Unit										
	D-	18 ... 36 V DC									
	A-	115/230 V AC, 50/60 Hz									
	Interfaces										
	E	1 x 1000BASE-T LAN Ex e, 1x USB Ex e, 2x USB Ex i									
	S	1 x 1000BASE-SX fiber optic (Multimode), 1x USB Ex e, 2x USB Ex i									
	L	1 x 1000BASE-LX fiber optic (Singlemode), 1x USB Ex e, 2x USB Ex i									
	Module A										
	N	No additional interface module									
	1	1 x RS-232 Ex e									
	2	1 x RS-485 Ex e									
	3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D* and base station IDMX61-B-* and IDM-Z1-x61-B-*									
	4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D*									
	5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals									
	E	1 x 1000BASE-T LAN Ex e									
	Module B										
	N	No additional interface module									
	1	1 x RS-232 Ex e									
	2	1 x RS-485 Ex e									
	3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D* and base station IDMX61-B-* and IDM-Z1-x61-B-*									
	4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D*									
	5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals									
	E	1 x 1000BASE-T LAN Ex e									
	Computing Platform										
	T3-	Intel® Atom Apollo Lake E3930, 4 GB RAM, 32 GB SSD, RM Shell 5.x (based on Win 10 IoT) LTSC									
	Housing										
	NN-	No bezel, prepared for flush mounting									
	S1-	Bezel; prepared for panel mounting or into AG-XX00 housing									
	H4-	Installed into GXP Housing AG-XX00 (SS304), front opening, surface finish 1,6µm bead blasted									
	Options										
	N0	Standard, no options									

Example: RM-GXP1100-22FN1-D-ENNT3-S1-N0



Operator Workstation (PC)

VisuNet GXP PC Zone 1/21 (2020 Generation)

PC-GXP1100-19S-* -P3/P4*

- 19 in (48 cm) display
- PC solution with pre-installed Windows® operating system
- Lightweight design
- Completely modular system for easy field maintainability
- Flush or bezel mounting options
- IP66 rating for each individual component and entire system with housing
- Certified for ATEX and IECEx Zone 1/21
- UL listed for USA and Canada

VisuNet GXP PC Zone 1/21 (2020 Generation, Intel® Atom Apollo Lake Processor)



Function

The VisuNet GXP PC (PC-GXP1100- 19S*/PC-GXP1200-19S*) is a lightweight modular operator workstation for use in hazardous locations according to ATEX and IECEx Zone 1/21 as well as Class I and II, Division 2, and Class III. Certification for Class I, Zone 2; Class II, Zone 22; and Class III, Zone 22 is also available.

The system assembly consists of three core components that are fieldreplaceable by the customer.

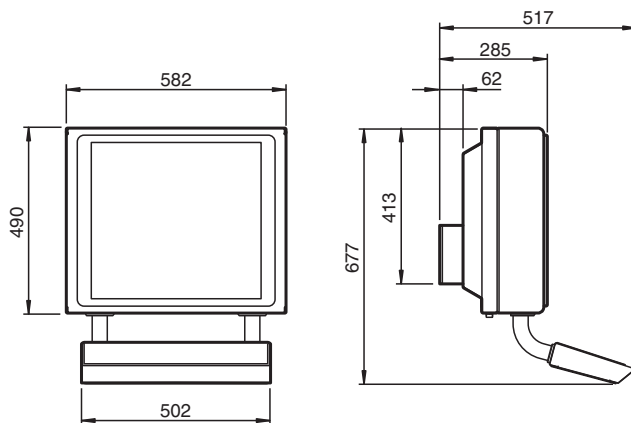
The display unit (DPU1100-*/DPU1200- *) is a hazardous-location rated display panel with an optional 10 finger multitouch sensor. The display and touchsensor are optically bonded with the hardened front glass.

The PC unit (PCU1100-*/PCU1200-*) is a hazardous-location rated computing unit that runs a pre-installed Microsoft Windows operating system. The PC unit allows users to install individual software packages such as SCADA applications to visualize and control their automation application.

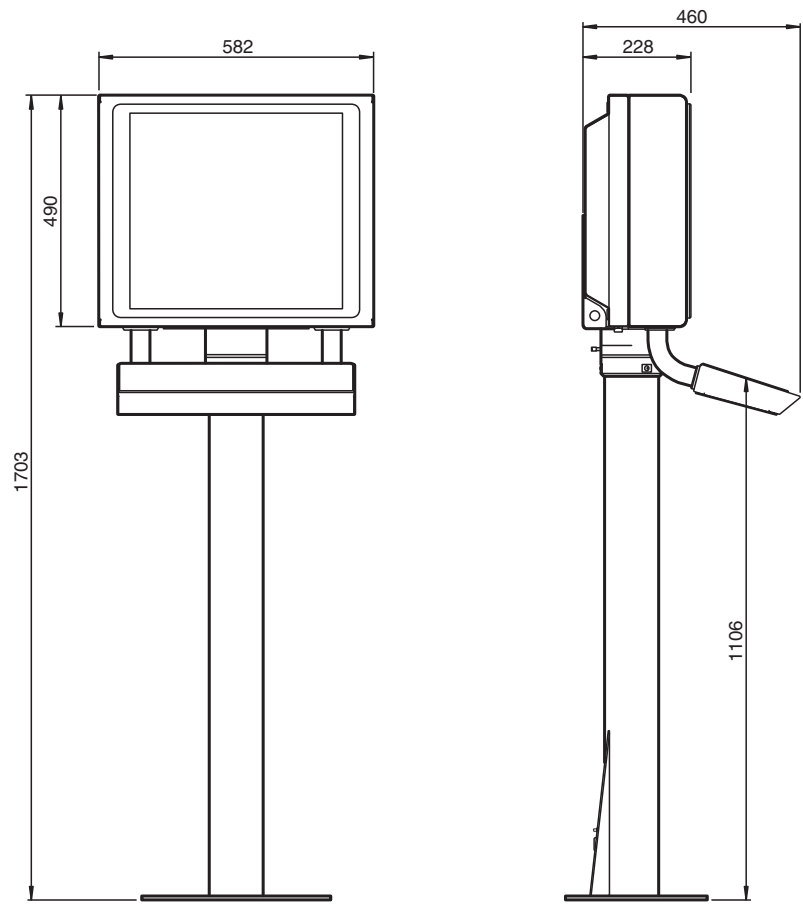
The power supply units (PSU1100-*/ PSU1200-*) are hazardous-location rated power supplies that provide the PCU and DPU devices with 24 V DC power.

As a standard mounting option, a bezel is available that allows the panel to be mounted into the system housing or into a cabinet (requires mounting kit). The panel can also be flush-mounted into a cabinet from the back with additional mounting brackets.

Dimensions



Dimensions



Technical Data

General specifications		
Type		Personal Computer
Hardware		
Processor		Intel® Atom Apollo Lake E3940
RAM		8 GB
Mass storage		240 GByte industrial grade SSD optional: 480 GByte SSD
Supply		
Power consumption		
AC		115/230 V AC, 0.4 ... 0.7 A, 50/60 Hz
DC		18 ... 36 V DC , 1.5 ... 3 A
Indicators/operating means		
Display		
Type		Liquid Crystal Display (LCD) with LED backlight
Screen diagonal		48.26 cm (19 inch)
Resolution		1280 x 1024 (SXGA) , Aspect ratio 5:4
Color depth		24 bit (16.7 M) color
Contrast		1000:1
Brightness		450 cd/m² (nit)
Reading angle		170° horizontal 160° vertical
Life span		back lamp life: 50.000 hrs typical half life , at 25 °C (77 °F)
Input devices		
Touch screen		optional: projective capacitive; 10 finger multi-touch, glove friendly
Keyboard		Foil keyboard with different pointing device options available (see EXTA4 datasheet)

Technical Data

Interface

Interface type	Standard: 1 x Ethernet 100/1000BASE-TX (Ex e) or 1 x fiber optic 1000BASE-SX (Multimode) or 1 x fiber optic 1000BASE-LX (Singlemode), 1 x USB 2.0 (Ex e), 2 x USB 1.1 (Ex i; intended for Pepperl+Fuchs keyboard and mouse), 1 x DC or AC power in (via power supply unit) Optional: "interface 3": 1 x barcode reader interface for wired 1-D scanners IDM-160-D*, IDM-Z1-160-D-* and base station IDMx61-B-* and IDM-Z1-x61-B-* (Ex i) "interface 4": 1 x barcode reader interface for wired 2-D Scanner IDM-Z1-260-D-* (Ex i) "interface 5": 1 x RS-232 interface with Power Supply for miscellaneous devices and peripherals (Ex i) 1 x RS-232 (Ex e) 1 x RS-485 (Ex e) 1 x Ethernet 100/1000Base-TX (Ex e) Bluetooth v4.0, communication distance up to 30 m in open terrain, transmission power +8 dBm, transmission frequency 2.402 ... 2.48 GHz
----------------	--

Directive conformity

Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations) non-Bluetooth products only
Radio and telecommunication terminal equipment		
Directive 2014/53/EU		EN 301 328 V2.1.1 EN 301 489-1 V2.1.1 EN 301 489-17 V3.1.1 Bluetooth products only
RoHS		
Directive 2011/65/EU (RoHS)		EN 50581:2012-09

Software

Operating system	Microsoft® Windows® 10 IoT Enterprise 2019 LTSC (x64)
------------------	---

Ambient conditions

Operating temperature	-20 ... 50 °C (-4 ... 122 °F)
Storage temperature	-20 ... 60 °C (-4 ... 140 °F)
Relative humidity	93% at 40°C, non-condensating, according to EN60068-2-78
Altitude	Operating altitude max. 2000 m
Shock resistance	18 shocks 15 g , 11 ms all axis, IEC 60068-2-27
Vibration resistance	10 ... 150 Hz, +/- 0.075 mm , 1g, 10 cycles per axis according to EN60068-2-6

Mechanical specifications

Degree of protection	IP66 (individual components and entire system with housing)
Material	Internal: Panel: anodized aluminum (TCU, PSU), powder coated aluminum (DPU) External: Bezel: stainless steel AISI 304 (1.4301) System housing: stainless steel AISI 304 (1.4301), bead blasted, typical surface roughness Ra = 1.6 µm
Installation	Flush-mount installation (requires customized mounting kit) Panel-mount installation into system housing with bezel Panel-mount installation into cabinet with Bezel and standard mounting kit
Mass	panel with DC: 22 kg , panel with AC: 23 kg , system housing AG1: 19 kg
Dimensions	panel with DC: 524 mm x 453 mm x 120 mm panel with AC: 524 mm x 453 mm x 137 mm panel with AG1 housing: 582 mm x 490 mm x 224 mm

Data for application in connection with hazardous areas

EU-type examination certificate	BVS 17 ATEX E 036 X
Marking	Ⓔ II 2G Ex eb q ib [ib] IIC T4 IP66 Gb Ⓔ II 2D Ex tb [ib] IIC T85°C IP66 Db
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2012+A11:2013, EN 60079-5:2015, EN 60079-7:2015, EN 60079-11:2012, EN 60079-31:2014

Technical Data

International approvals		
UL approval		E492874
Approved for		Class I, Division 2, Groups A, B, C, D T4; Zone 2, Group IIC T4 Class II, Division 2, Groups F, G T4; Zone 22, Group IIIB T85 Class III; Zone 22, Group IIIA T85
IECEx approval		IECEx BVS 17.0029X
Approved for		Ex eb q ib [ib] IIC T4 IP66 Gb Ex tb [ib] IIC T85°C IP66 Db
Standards		IEC 60079-0:2011, IEC 60079-5:2015, IEC 60079-7:2015, IEC 60079-11:2011, IEC 60079-31:2013

Type Code

Model	Display Unit	Front Glass & Touch	Interfaces	Power Supply Unit	Interfaces	Module A	Module B	Computing Platform	Housing	Options	
Model											
PC-GXP1100-	VisuNet GXP Personal Computer System; Zone 1/21										
PC-GXP1200-	VisuNet GXP Personal Computer System; Zone 2/22										
	Display Unit										
	19S	19 inch, SXGA (1280 x 1024)									
		Front Glass & Touch									
	N	Anti-glare security glass, no touch									
	C	Anti-glare security glass, projective capacitive 10-finger multitouch									
		Interfaces									
	1-	5 x capacitive system front keys									
	2-	5 x capacitive system front keys and Bluetooth interface									
		Power Supply Unit									
	D-	18 ... 36 V DC									
	A-	115/230 V AC, 50/60 Hz									
		Interfaces									
	E	1 x 1000BASE-T LAN Ex e, 1x USB Ex e, 2x USB Ex i									
	S	1 x 1000BASE-SX fiber optic (Multimode), 1x USB Ex e, 2x USB Ex i									
	L	1 x 1000BASE-LX fiber optic (Singlemode), 1x USB Ex e, 2x USB Ex i									
		Module A									
	N	No additional interface module									
	1	1 x RS-232 Ex e									
	2	1 x RS-485 Ex e									
	3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D-* and base station IDMx61-B-* and IDM-Z1-x61-B-*									
	4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D-*									
	5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals									
	E	1 x 1000BASE-T LAN Ex e									
		Module B									
	N	No additional interface module									
	1	1 x RS-232 Ex e									
	2	1 x RS-485 Ex e									
	3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D-* and base station IDMx61-B-* and IDM-Z1-x61-B-*									
	4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D-*									
	5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals									
	E	1 x 1000BASE-T LAN Ex e									
		Computing Platform									
	P3-	Intel® Atom Apollo Lake E3940, 8 GB RAM, 240 GB SSD, Windows 10 IoT Enterprise LTSC x64									
	P4-	Intel® Atom Apollo Lake E3940, 8 GB RAM, 480 GB SSD, Windows 10 IoT Enterprise LTSC x64									
		Housing									
	NN-	No bezel, prepared for flush mounting									
	S2-	Bezel; prepared for panel mounting or into AG1 housing									
	H2-	Installed into EX1 AG1 housing (SS304), front opening, for pedestal/ceiling/wall-arm									
		Options									
	N0-	Standard, no options									

Example: PC-GXP1100-19SN1-D-ENNP1-S2-N0



Operator Workstation (RM)

VisuNet GXP Remote Monitor Zone 1/21 (2020 Generation)

RM-GXP1100-19S-* -T3*

- 19 in (48 cm) display
- Thin Client solution (with VisuNet RM Shell firmware)
- Lightweight design
- Completely modular system for easy field maintainability
- Flush or bezel mounting options
- IP66 rating for each individual component and entire system with housing
- Certified for ATEX and IECEx Zone 1/21
- UL listed for USA and Canada

VisuNet GXP Remote Monitor Zone 1/21 (2020 Generation, Intel® Atom Apollo Lake Processor)



Function

The VisuNet GXP Remote Monitor (RMGXP1100- 19S*/RM-GXP1200-19S*) is a lightweight modular operator workstation for use in hazardous locations according to ATEX and IECEx Zone 1/21 as well as Class I and II, Division 2, and Class III. Certification for Class I, Zone 2; Class II, Zone 22; and Class III, Zone 22 is also available.

The system assembly consists of three core components that are fieldreplaceable by the customer.

The display unit (DPU1100-*/DPU1200- *) is a hazardous-location rated display panel with an optional 10 finger multitouch sensor. The display and touchsensor are optically bonded with the hardened front glass.

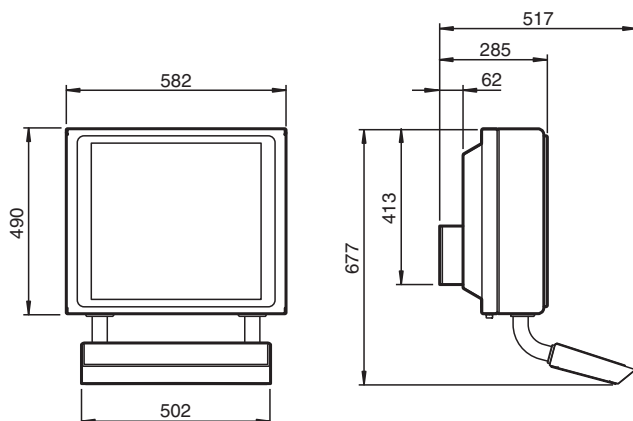
The thin client unit (TCU1100-*/ TCU1200-*) is a hazardous-location rated computing unit that runs the latest Pepperl+Fuchs RM Shell firmware.

The TCU allows connection to various host systems in the safe area, using standard Ethernet technology.

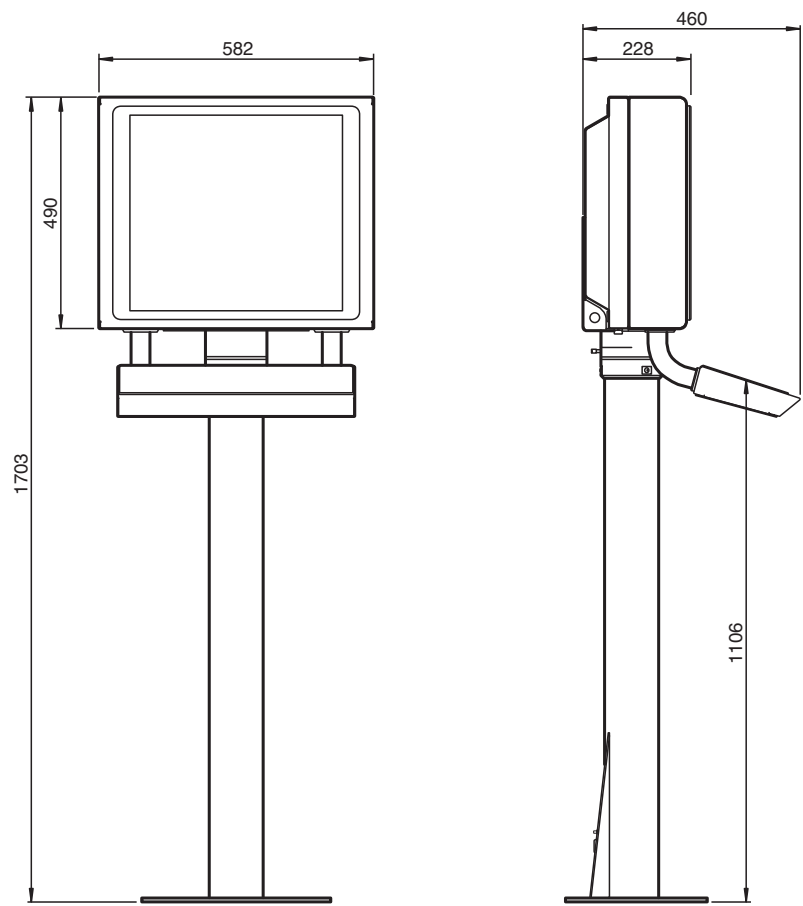
The power supply units (PSU1100-*/ PSU1200-*) are hazardous-location rated power supplies, providing the TCU and DPU devices with 24 V DC power.

As a standard mounting option, a bezel is available that allows the panel to be mounted into the system housing or into a cabinet (requires mounting kit). The panel can also be flush-mounted into a cabinet from the back with additional mounting brackets.

Dimensions



Dimensions



Technical Data

General specifications		
Type	Remote Monitor	
Hardware		
Processor	Intel® Atom Apollo Lake E3930 Alternative: Intel® Atom™ Atom Apollo Lake E3940*	
RAM		4 GB
Mass storage	32 GByte industrial grade MLC SSD	
Supply		
Power consumption		
AC		115/230 V AC, 0.4 ... 0.7 A, 50/60 Hz
DC	18 ... 36 V DC , 1.5 ... 3 A	
Indicators/operating means		
Display		
Type		Liquid Crystal Display (LCD) with LED backlight
Screen diagonal	48.26 cm (19 inch)	
Resolution		1280 x 1024 (SXGA) , Aspect ratio 5:4
Color depth	24 bit (16.7 M) color	
Contrast		1000:1
Brightness	450 cd/m² (nit)	
Reading angle		170° horizontal 160° vertical
Life span	back lamp life: 50.000 hrs typical half life , at 25 °C (77 °F)	
Input devices		
Touch screen	optional: projective capacitive; 10 finger multi-touch, glove friendly	
Keyboard	Foil keyboard with different pointing device options available (see EXTA4 datasheet)	

Technical Data

Interface

Interface type		Standard: 1 x Ethernet 100/1000BASE-TX (Ex e) or 1 x fiber optic 1000BASE-SX (Multimode) or 1 x fiber optic 1000BASE-LX (Singlemode), 1 x USB 2.0 (Ex e), 2 x USB 1.1 (Ex i; intended for Pepperl+Fuchs keyboard and mouse), 1 x DC or AC power in (via power supply unit) Optional: "interface 3": 1 x barcode reader interface for wired 1-D scanners IDM-160-D*, IDM-Z1-160-D-* and base station IDmx61-B-* and IDM-Z1-x61-B-* (Ex i) "interface 4": 1 x barcode reader interface for wired 2-D Scanner IDM-Z1-260-D-* (Ex i) "interface 5": 1 x RS-232 interface with Power Supply for miscellaneous devices and peripherals (Ex i) 1 x RS-232 (Ex e) 1 x RS-485 (Ex e) 1 x Ethernet 100/1000Base-TX (Ex e) Bluetooth v4.0, communication distance up to 30 m in open terrain, transmission power +8 dBm, transmission frequency 2.402 ... 2.48 GHz
----------------	--	--

Directive conformity

Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations) non-Bluetooth products only
Radio and telecommunication terminal equipment		
Directive 2014/53/EU		EN 301 328 V2.1.1 EN 301 489-1 V2.1.1 EN 301 489-17 V3.1.1 Bluetooth products only
RoHS		
Directive 2011/65/EU (RoHS)		EN 50581:2012-09

Software

Operating system		VisuNet RM Shell 5.x (based on Microsoft® Windows® 10 IoT Enterprise 2019 LTSC (x64))
------------------	--	---

Ambient conditions

Operating temperature		-20 ... 50 °C (-4 ... 122 °F)
Storage temperature		-20 ... 60 °C (-4 ... 140 °F)
Relative humidity		93% at 40°C, non-condensating, according to EN60068-2-78
Altitude		Operating altitude max. 2000 m
Shock resistance		18 shocks 15 g , 11 ms all axis, IEC 60068-2-27
Vibration resistance		10 ... 150 Hz, +/- 0.075 mm , 1g, 10 cycles per axis according to EN60068-2-6

Mechanical specifications

Degree of protection		IP66 (individual components and entire system with housing)
Material		Internal: Panel: anodized aluminum (TCU, PSU), powder coated aluminum (DPU) External: Bezel: stainless steel AISI 304 (1.4301) System housing: stainless steel AISI 304 (1.4301), bead blasted, typical surface roughness Ra = 1.6 µm
Installation		Flush-mount installation (requires customized mounting kit) Panel-mount installation into system housing with bezel Panel-mount installation into cabinet with Bezel and standard mounting kit
Mass		panel with DC: 22 kg , panel with AC: 23 kg , system housing AG1: 19 kg
Dimensions		panel with DC: 524 mm x 453 mm x 120 mm panel with AC: 524 mm x 453 mm x 137 mm panel with AG1 housing: 582 mm x 490 mm x 224 mm
Note		* see nameplate: 2021 alternative, processor cannot be selected

Data for application in connection with hazardous areas

EU-type examination certificate		BVS 17 ATEX E 036 X
Marking		Ⓔ II 2G Ex eb q ib [ib] IIC T4 IP66 Gb Ⓔ II 2D Ex tb [ib] IIIC T85°C IP66 Db
Directive conformity		

Technical Data

Directive 2014/34/EU		EN 60079-0:2012+A11:2013, EN 60079-5:2015, EN 60079-7:2015, EN 60079-11:2012, EN 60079-31:2014
International approvals		
UL approval		E492874
Approved for		Class I, Division 2, Groups A, B, C, D T4; Zone 2, Group IIC T4 Class II, Division 2, Groups F, G T4; Zone 22, Group IIIB T85 Class III; Zone 22, Group IIIA T85
IECEx approval		IECEx BVS 17.0029X
Approved for		Ex eb q ib [ib] IIC T4 IP66 Gb Ex tb [ib] IIIC T85°C IP66 Db
Standards		IEC 60079-0:2011, IEC 60079-5:2015, IEC 60079-7:2015, IEC 60079-11:2011, IEC 60079-31:2013

Type Code

Model	Display Unit	Front Glass & Touch	Interfaces	Power Supply Unit	Interfaces	Module A	Module B	Computing Platform	Housing	Options	
Model											
RM-GXP1100-	VisuNet GXP Remote Monitor System; Zone 1/21										
RM-GXP1200-	VisuNet GXP Remote Monitor System; Zone 2/22										
	Display Unit										
	19S	19 inch, SXGA (1280x1024)									
	Front Glass & Touch										
	N	Anti-glare security glass, no touch									
	C	Anti-glare security glass, projective capacitive 10-finger multitouch									
	Interfaces										
	1-	5 x capacitive system front keys									
	2-	5 x capacitive system front keys and Bluetooth interface									
	Power Supply Unit										
	D-	18 ... 36 V DC									
	A-	115/230 V AC, 50/60 Hz									
	Interfaces										
	E	1 x 1000BASE-T LAN Ex e, 1x USB Ex e, 2x USB Ex i									
	S	1 x 1000BASE-SX fiber optic (Multimode), 1x USB Ex e, 2x USB Ex i									
	L	1 x 1000BASE-LX fiber optic (Singlemode), 1x USB Ex e, 2x USB Ex i									
	Module A										
	N	No additional interface module									
	1	1 x RS-232 Ex e									
	2	1 x RS-485 Ex e									
	3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D-* and base station IDMX61-B-* and IDM-Z1-x61-B-*									
	4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D-*									
	5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals									
	E	1 x 1000BASE-T LAN Ex e									
	Module B										
	N	No additional interface module									
	1	1 x RS-232 Ex e									
	2	1 x RS-485 Ex e									
	3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D-* and base station IDMX61-B-* and IDM-Z1-x61-B-*									
	4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D-*									
	5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals									
	E	1 x 1000BASE-T LAN Ex e									
	Computing Platform										
	T3-	Intel® Atom Apollo Lake E3930, 4 GB RAM, 32 GB SSD, RM Shell 5.x (based on Win 10 IoT) LTSC									
	Housing										
	NN-	No bezel, prepared for flush mounting									
	S2-	Bezel; prepared for panel mounting or into AG1 housing									
	H2-	Installed into EX1 AG1 housing (SS304), front opening, for pedestal/ceiling/wall-arm									
	Options										
	N0-	Standard, no options									

Example: RM-GXP1100-19SN1-D-ENNT3-S2-N0



Operator Workstation (RM)

VisuNet GXP Remote Monitor (RM) Zone 2/22 (Generation 2020)

RM-GXP1200-22F-*-T3*

- 21.5" (54.61 cm) display
- 16:9 aspect ratio widescreen formatting to match engineering stations
- Thin Client solution (with VisuNet RM Shell firmware)
- Lightweight design
- Full HD Resolution
- Completely modular system for easy field maintainability
- Flush or bezel mounting options
- IP66 rating for each individual component and entire system with housing
- Certified for ATEX and IECEx Zone 2/22
- UL listed for USA and Canada

VisuNet GXP Remote Monitor Zone 2/22 (2020 Generation, Intel® Atom Apollo Lake Processor)



Function

The VisuNet GXP Remote Monitor (RMGXP1100- 22F*/RM-GXP1200-22F*) is a lightweight modular operator workstation for use in hazardous locations according to ATEX & IECEx Zone 1/21 as well as Class I and II, Division 2, and Class III. Certification for Class I, Zone 2; Class II, Zone 22; and Class III, Zone 22 is also available.

The system assembly consists of three core components that are fieldreplaceable by the customer.

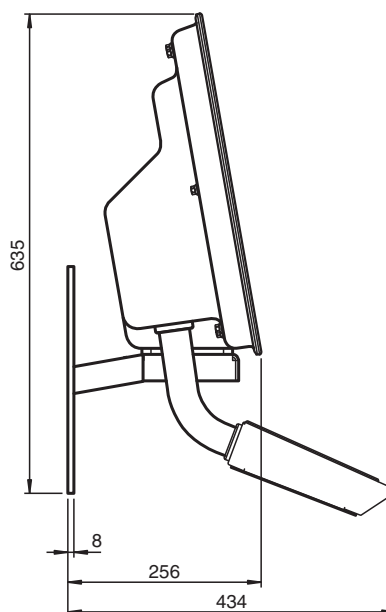
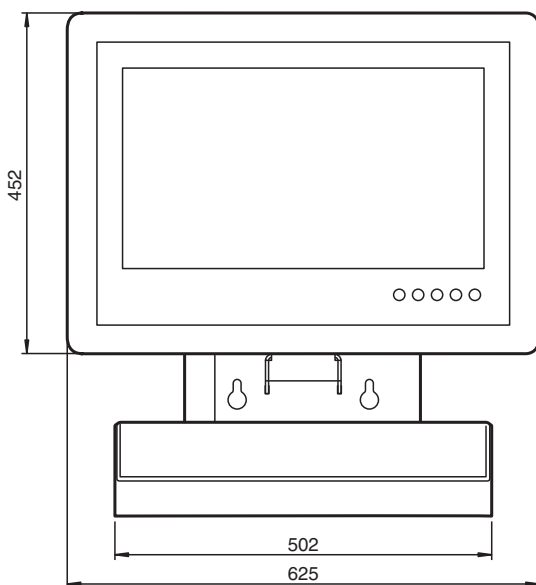
The display unit (DPU1100-*/DPU1200-*) is a hazardous-location rated display panel with an optional 10 finger multitouch sensor. The display and touchsensor are optically bonded with the hardened front glass.

The thin client unit (TCU1100-*/TCU1200-*) is a hazardous-location rated computing unit that runs the latest Pepperl+Fuchs RM Shell firmware. The TCU allows connection to various host systems in the safe area, using standard Ethernet technology.

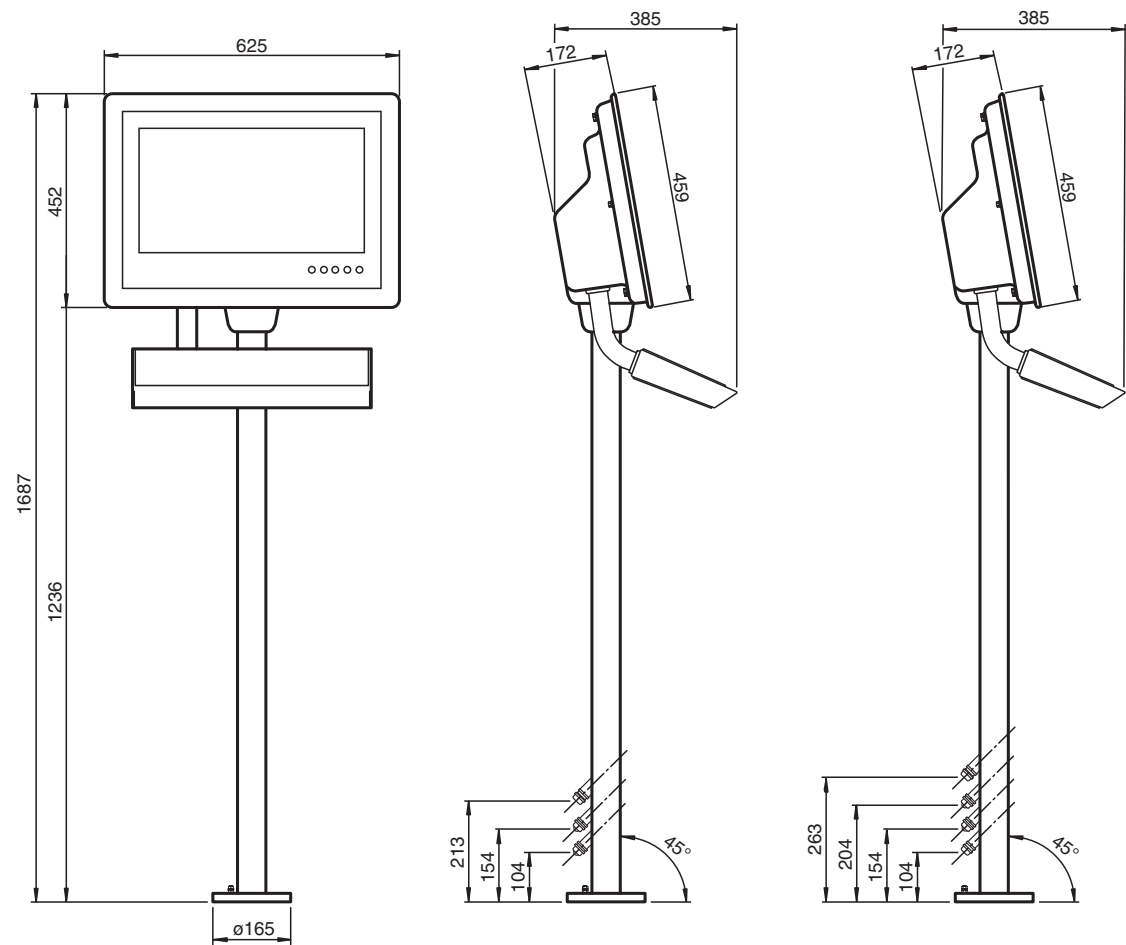
The power supply units (PSU1100-*/PSU1200-*) are hazardous-location rated power supplies, providing the TCU and DPU devices with 24 V DC power.

As a standard mounting option, a bezel is available that allows the panel to be mounted into the system housing or into a cabinet (requires mounting kit). The panel can also be flush-mounted into a cabinet from the back with additional mounting brackets.

Dimensions



Dimensions



Technical Data

General specifications		
Type	Remote Monitor	
Hardware		
Processor	Intel® Atom Apollo Lake E3930 Alternative: Intel® Atom™ Atom Apollo Lake E3940*	
RAM		4 GB
Mass storage	32 GByte industrial grade MLC SSD	
Supply		
Power consumption		
AC		115/230 V AC, 0.4 ... 0.7 A, 50/60 Hz
DC	18 ... 36 V DC , 1.5 ... 3 A	
Indicators/operating means		
Display		
Type		Liquid Crystal Display (LCD) with LED backlight
Screen diagonal	54.61 cm (21.5 inch)	
Resolution		1920 x 1080 pixels (Full HD) Aspect ratio 16:9
Color depth	24 bit (16.7 M) color	
Contrast		5000:1 (typically)
Brightness	300 cd/m² (nit)	
Reading angle		175° in all directions
Life span	back lamp life: 50.000 hrs typical half life , at 25 °C (77 °F)	
Input devices		
Touch screen	optional: projective capacitive; 10 finger multi-touch, glove friendly	

Technical Data

Keyboard		Foil keyboard with different pointing device options available (see EXTA4 datasheet)
Interface		
Interface type		Standard: 1 x Ethernet 100/1000BASE-TX (Ex e) or 1 x fiber optic 1000BASE-SX (Multimode) or 1 x fiber optic 1000BASE-LX (Singlemode), 1 x USB 2.0 (Ex e), 2 x USB 1.1 (Ex i; intended for Pepperl+Fuchs keyboard and mouse), 1 x DC or AC power in (via power supply unit) Optional: "interface 3": 1 x barcode reader interface for wired 1-D scanners IDM-160-D*, IDM-Z1-160-D-* and base station IDMX61-B-* and IDM-Z1-x61-B-* (Ex i) "interface 4": 1 x barcode reader interface for wired 2-D Scanner IDM-Z1-260-D-* (Ex i) "interface 5": 1 x RS-232 interface with Power Supply for miscellaneous devices and peripherals (Ex i) 1 x RS-232 (Ex e) 1 x RS-485 (Ex e) 1 x Ethernet 100/1000Base-TX (Ex e) Bluetooth v4.0, communication distance up to 30 m in open terrain, transmission power +8 dBm, transmission frequency 2.402 ... 2.48 GHz
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations) non-Bluetooth products only
Radio and telecommunication terminal equipment		
Directive 2014/53/EU		EN 301 328 V2.1.1 EN 301 489-1 V2.1.1 EN 301 489-17 V3.1.1 Bluetooth products only
RoHS		
Directive 2011/65/EU (RoHS)		EN 50581:2012-09
Software		
Operating system		VisuNet RM Shell 5.x (based on Microsoft® Windows® 10 IoT Enterprise 2019 LTSC (x64))
Ambient conditions		
Operating temperature		-20 ... 50 °C (-4 ... 122 °F) Display might react sluggishly below 0 °C
Storage temperature		-20 ... 60 °C (-4 ... 140 °F)
Relative humidity		93% at 40°C, non-condensating, according to EN60068-2-78
Altitude		Operating altitude max. 2000 m
Shock resistance		18 shocks 15 g , 11 ms all axis, IEC 60068-2-27
Vibration resistance		10 ... 150 Hz, +/- 0.075 mm , 1g, 10 cycles per axis according to EN60068-2-6
Mechanical specifications		
Degree of protection		IP66 (individual components and entire system with housing)
Material		Internal: Panel: anodized aluminum (TCU, PCU, PSU), powder coated aluminum (DPU) External: Bezel: stainless steel AISI 304 (1.4301) System housing H4: stainless steel AISI 304 (1.4301), bead blasted, typical surface roughness Ra = 1.6 µm
Installation		Flush-mount installation (requires customized mounting kit) Panel-mount installation into system housing with bezel Panel-mount installation into cabinet with Bezel and standard mounting kit
Mass		Panel (DPU with bezel, TCU, PSU DC): approx. 17.5 kg Panel (DPU with bezel, TCU, PSU AC): approx. 18 kg System housing: approx. 11 kg
Dimensions		Panel (DPU with bezel, TCU, PSU DC): 625 mm x 459 mm x 120 mm Panel (DPU with bezel, TCU, PSU AC): 625 mm x 459 mm x 137 mm Panel with system housing: 625 mm x 459 mm x 173 mm Panel cut-out dimensions: 583 mm x 417 mm (installation surface)
Note		* see nameplate: 2021 alternative, processor cannot be selected
Data for application in connection with hazardous areas		

Technical Data

EU-type examination certificate		BVS 17 ATEX E 037 X
Marking		Ⓔ II 3G Ex ec [ib] q IIC T4 IP66 Gc Ⓔ II 3D Ex tc [ib] IIIC T85 °C IP66 Dc
Directive conformity		
Directive 2014/34/EU		EN 60079-0:2012+A11:2013, EN 60079-7:2015, EN 60079-11:2012, EN 60079-31:2014
International approvals		
UL approval		E492874
Approved for		Class I, Division 2, Groups A, B, C, D T4; Zone 2, Group IIC T4 Class II, Division 2, Groups F, G T4; Zone 22, Group IIIB T85 Class III; Zone 22, Group IIIA T85
IECEx approval		IECEx BVS 17.0029X
Approved for		Ex ec [ib] q IIC T4 IP66 Gc Ex tc [ib] IIIC T85 °C IP66 Dc
Standards		IEC 60079-0:2011, IEC 60079-7:2015, IEC 60079-11:2011, IEC 60079-31:2013

Type Code

VisuNet RM-GXP1100-22F*/RM-GXP1200-22F*

Model	Display Unit	Front Glass & Touch	Interfaces	Power Supply Unit	Interfaces	Module A	Module B	Computing Platform	Housing	Options	
Model											
RM-GXP1100-	VisuNet GXP Remote Monitor System; Zone 1/21										
RM-GXP1200-	VisuNet GXP Remote Monitor System; Zone 2/22										
	Display Unit										
	22F	21.5 inch (16:9), Full HD (1920 x 1080 pixel)									
	Front Glass & Touch										
	N	Anti-glare security glass, no touch									
	C	Anti-glare security glass, projective capacitive 10-finger multitouch									
	Interfaces										
	1-	5 x capacitive system front keys									
	2-	5 x capacitive system front keys and Bluetooth interface									
	Power Supply Unit										
	D-	18 ... 36 V DC									
	A-	115/230 V AC, 50/60 Hz									
	Interfaces										
	E	1 x 1000BASE-T LAN Ex e, 1x USB Ex e, 2x USB Ex i									
	S	1 x 1000BASE-SX fiber optic (Multimode), 1x USB Ex e, 2x USB Ex i									
	L	1 x 1000BASE-LX fiber optic (Singlemode), 1x USB Ex e, 2x USB Ex i									
	Module A										
	N	No additional interface module									
	1	1 x RS-232 Ex e									
	2	1 x RS-485 Ex e									
	3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D-* and base station IDMX61-B-* and IDM-Z1-x61-B-*									
	4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D-*									
	5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals									
	E	1 x 1000BASE-T LAN Ex e									
	Module B										
	N	No additional interface module									
	1	1 x RS-232 Ex e									
	2	1 x RS-485 Ex e									
	3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D-* and base station IDMX61-B-* and IDM-Z1-x61-B-*									
	4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D-*									
	5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals									
	E	1 x 1000BASE-T LAN Ex e									
	Computing Platform										
	T3-	Intel® Atom Apollo Lake E3930, 4 GB RAM, 32 GB SSD, RM Shell 5.x (based on Win 10 IoT) LTSC									
	Housing										
	NN-	No bezel, prepared for flush mounting									
	S1-	Bezel; prepared for panel mounting or into AG-XX00 housing									
	H4-	Installed into GXP Housing AG-XX00 (SS304), front opening, surface finish 1,6µm bead blasted									
	Options										
	N0	Standard, no options									

Example: RM-GXP1100-22FN1-D-ENNT3-S1-N0



Operator Workstation (RM)

VisuNet GXP Remote Monitor (RM) Zone 2/22 (Generation 2020)

RM-GXP1200-19S-* -T3*

- 19 in (48 cm) display
- Thin Client solution (with VisuNet RM Shell firmware)
- Lightweight design
- Completely modular system for easy field maintainability
- Flush or bezel mounting options
- IP66 rating for each individual component and entire system with housing
- Certified for ATEX and IECEx Zone 2/22
- UL listed for USA and Canada

VisuNet GXP Remote Monitor Zone 2/22 (2020 Generation, Intel® Atom Apollo Lake Processor)



Function

The VisuNet GXP Remote Monitor (RMGXP1100- 19S*/RM-GXP1200-19S*) is a lightweight modular operator workstation for use in hazardous locations according to ATEX and IECEx Zone 1/21 as well as Class I and II, Division 2, and Class III. Certification for Class I, Zone 2; Class II, Zone 22; and Class III, Zone 22 is also available.

The system assembly consists of three core components that are fieldreplaceable by the customer.

The display unit (DPU1100-*/DPU1200- *) is a hazardous-location rated display panel with an optional 10 finger multitouch sensor. The display and touchsensor are optically bonded with the hardened front glass.

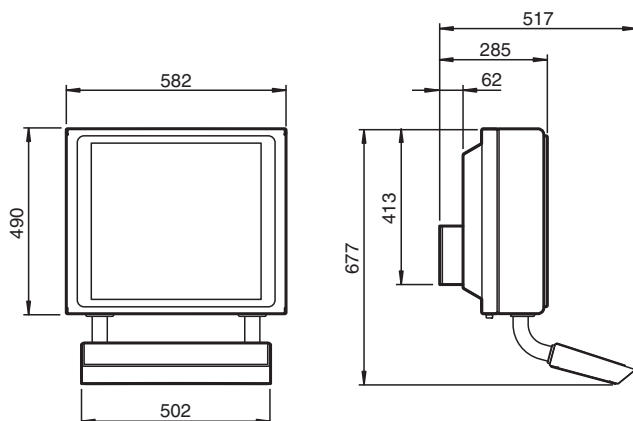
The thin client unit (TCU1100-*/ TCU1200-*) is a hazardous-location rated computing unit that runs the latest Pepperl+Fuchs RM Shell firmware.

The TCU allows connection to various host systems in the safe area, using standard Ethernet technology.

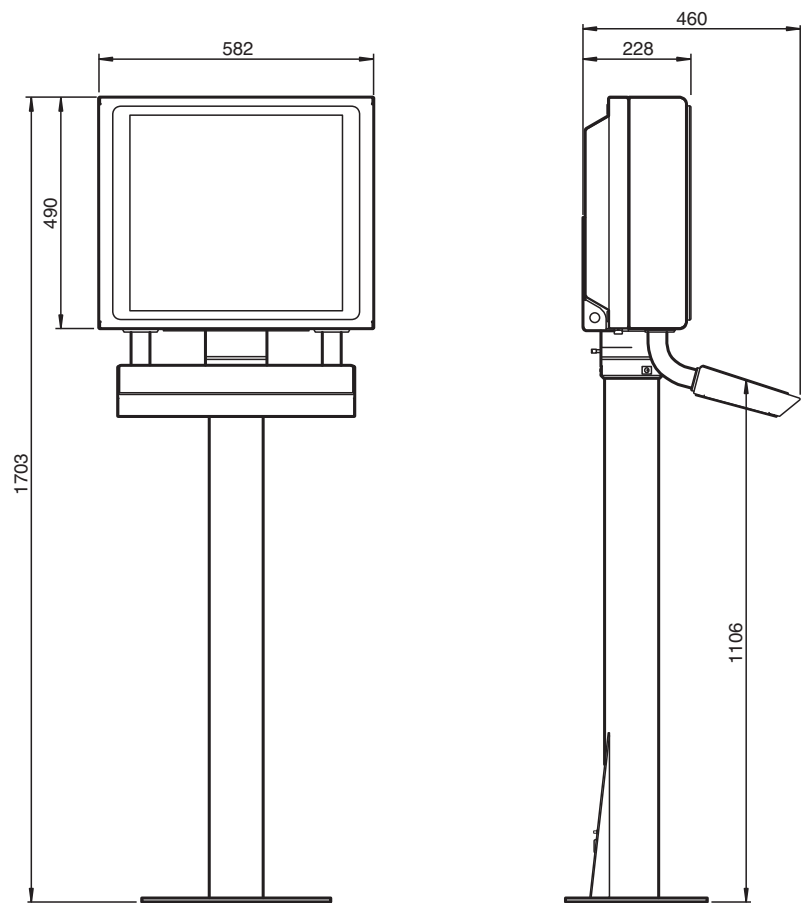
The power supply units (PSU1100-*/ PSU1200-*) are hazardous-location rated power supplies, providing the TCU and DPU devices with 24 V DC power.

As a standard mounting option, a bezel is available that allows the panel to be mounted into the system housing or into a cabinet (requires mounting kit). The panel can also be flush-mounted into a cabinet from the back with additional mounting brackets.

Dimensions



Dimensions



Technical Data

General specifications		
Type	Remote Monitor	
Hardware		
Processor	Intel® Atom Apollo Lake E3930 Alternative: Intel® Atom™ Atom Apollo Lake E3940*	
RAM		4 GB
Mass storage	32 GByte industrial grade MLC SSD	
Supply		
Power consumption		
AC		115/230 V AC, 0.4 ... 0.7 A, 50/60 Hz
DC	18 ... 36 V DC , 1.5 ... 3 A	
Indicators/operating means		
Display		
Type		Liquid Crystal Display (LCD) with LED backlight
Screen diagonal	48.26 cm (19 inch)	
Resolution		1280 x 1024 (SXGA) , Aspect ratio 5:4
Color depth	24 bit (16.7 M) color	
Contrast		1000:1
Brightness	450 cd/m² (nit)	
Reading angle		170° horizontal 160° vertical
Life span	back lamp life: 50.000 hrs typical half life , at 25 °C (77 °F)	
Input devices		
Touch screen	optional: projective capacitive; 10 finger multi-touch, glove friendly	
Keyboard	Foil keyboard with different pointing device options available (see EXTA4 datasheet)	

Technical Data

Interface

Interface type		Standard: 1 x Ethernet 100/1000BASE-TX (Ex e) or 1 x fiber optic 1000BASE-SX (Multimode) or 1 x fiber optic 1000BASE-LX (Singlemode), 1 x USB 2.0 (Ex e), 2 x USB 1.1 (Ex i; intended for Pepperl+Fuchs keyboard and mouse), 1 x DC or AC power in (via power supply unit) Optional: "interface 3": 1 x barcode reader interface for wired 1-D scanners IDM-160-D*, IDM-Z1-160-D-* and base station IDmx61-B-* and IDM-Z1-x61-B-* (Ex i) "interface 4": 1 x barcode reader interface for wired 2-D Scanner IDM-Z1-260-D-* (Ex i) "interface 5": 1 x RS-232 interface with Power Supply for miscellaneous devices and peripherals (Ex i) 1 x RS-232 (Ex e) 1 x RS-485 (Ex e) 1 x Ethernet 100/1000Base-TX (Ex e) Bluetooth v4.0, communication distance up to 30 m in open terrain, transmission power +8 dBm, transmission frequency 2.402 ... 2.48 GHz
----------------	--	--

Directive conformity

Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations) non-Bluetooth products only
Radio and telecommunication terminal equipment		
Directive 2014/53/EU		EN 301 328 V2.1.1 EN 301 489-1 V2.1.1 EN 301 489-17 V3.1.1 Bluetooth products only
RoHS		
Directive 2011/65/EU (RoHS)		EN 50581:2012-09

Software

Operating system		VisuNet RM Shell 5.x (based on Microsoft® Windows® 10 IoT Enterprise 2019 LTSC (x64))
------------------	--	---

Ambient conditions

Operating temperature		-20 ... 50 °C (-4 ... 122 °F)
Storage temperature		-20 ... 60 °C (-4 ... 140 °F)
Relative humidity		93% at 40°C, non-condensating, according to EN60068-2-78
Altitude		Operating altitude max. 2000 m
Shock resistance		18 shocks 15 g , 11 ms all axis, IEC 60068-2-27
Vibration resistance		10 ... 150 Hz, +/- 0.075 mm , 1g, 10 cycles per axis according to EN60068-2-6

Mechanical specifications

Degree of protection		IP66 (individual components and entire system with housing)
Material		Internal: Panel: anodized aluminum (TCU, PSU), powder coated aluminum (DPU) External: Bezel: stainless steel AISI 304 (1.4301) System housing: stainless steel AISI 304 (1.4301), bead blasted, typical surface roughness Ra = 1.6 µm
Installation		Flush-mount installation (requires customized mounting kit) Panel-mount installation into system housing with bezel Panel-mount installation into cabinet with Bezel and standard mounting kit
Mass		panel with DC: 22 kg , panel with AC: 23 kg , system housing AG1: 19 kg
Dimensions		panel with DC: 524 mm x 453 mm x 120 mm panel with AC: 524 mm x 453 mm x 137 mm panel with AG1 housing: 582 mm x 490 mm x 224 mm
Note		* see nameplate: 2021 alternative, processor cannot be selected

Data for application in connection with hazardous areas

EU-type examination certificate		BVS 17 ATEX E 037 X
Marking		Ⓔ II 3G Ex ec [ib] q IIC T4 IP66 Gc Ⓔ II 3D Ex tc [ib] IIIC T85 °C IP66 Dc
Directive conformity		

Technical Data

Directive 2014/34/EU		EN 60079-0:2012+A11:2013, EN 60079-7:2015, EN 60079-11:2012, EN 60079-31:2014
International approvals		
UL approval		E492874
Approved for		Class I, Division 2, Groups A, B, C, D T4; Zone 2, Group IIC T4 Class II, Division 2, Groups F, G T4; Zone 22, Group IIIB T85 Class III; Zone 22, Group IIIA T85
IECEx approval		IECEx BVS 17.0029X
Approved for		Ex ec [ib] q IIC T4 IP66 Gc Ex tc [ib] IIIC T85 °C IP66 Dc
Standards		IEC 60079-0:2011, IEC 60079-7:2015, IEC 60079-11:2011, IEC 60079-31:2013

Type Code

Model	Display Unit	Front Glass & Touch	Interfaces	Power Supply Unit	Interfaces	Module A	Module B	Computing Platform	Housing	Options	
Model											
RM-GXP1100-	VisuNet GXP Remote Monitor System; Zone 1/21										
RM-GXP1200-	VisuNet GXP Remote Monitor System; Zone 2/22										
	Display Unit										
	19S	19 inch, SXGA (1280x1024)									
	Front Glass & Touch										
	N	Anti-glare security glass, no touch									
	C	Anti-glare security glass, projective capacitive 10-finger multitouch									
	Interfaces										
	1-	5 x capacitive system front keys									
	2-	5 x capacitive system front keys and Bluetooth interface									
	Power Supply Unit										
	D-	18 ... 36 V DC									
	A-	115/230 V AC, 50/60 Hz									
	Interfaces										
	E	1 x 1000BASE-T LAN Ex e, 1x USB Ex e, 2x USB Ex i									
	S	1 x 1000BASE-SX fiber optic (Multimode), 1x USB Ex e, 2x USB Ex i									
	L	1 x 1000BASE-LX fiber optic (Singlemode), 1x USB Ex e, 2x USB Ex i									
	Module A										
	N	No additional interface module									
	1	1 x RS-232 Ex e									
	2	1 x RS-485 Ex e									
	3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D-* and base station IDMX61-B-* and IDM-Z1-x61-B-*									
	4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D-*									
	5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals									
	E	1 x 1000BASE-T LAN Ex e									
	Module B										
	N	No additional interface module									
	1	1 x RS-232 Ex e									
	2	1 x RS-485 Ex e									
	3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D-* and base station IDMX61-B-* and IDM-Z1-x61-B-*									
	4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D-*									
	5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals									
	E	1 x 1000BASE-T LAN Ex e									
	Computing Platform										
	T3-	Intel® Atom Apollo Lake E3930, 4 GB RAM, 32 GB SSD, RM Shell 5.x (based on Win 10 IoT) LTSC									
	Housing										
	NN-	No bezel, prepared for flush mounting									
	S2-	Bezel; prepared for panel mounting or into AG1 housing									
	H2-	Installed into EX1 AG1 housing (SS304), front opening, for pedestal/ceiling/wall-arm									
	Options										
	N0-	Standard, no options									

Example: RM-GXP1100-19SN1-D-ENNT3-S2-N0



Operator Workstation (PC)

VisuNet GXP PC Zone 2/22 (2024 Generation)

PC-GXP1200-22F-* -P5/P6*

- 21.5" (54.61 cm) display
- 16:9 aspect ratio widescreen formatting to match engineering stations
- PC solution with pre-installed Windows® operating system
- Lightweight design
- Full HD Resolution
- Completely modular system for easy field maintainability
- Flush or bezel mounting options
- IP66 rating for each individual component and entire system with housing
- Certified for ATEX and IECEx Zone 2/22

VisuNet GXP PC Zone 2/22 (2024 Generation, Intel® Atom Elkhart Lake Processor)



Function

The VisuNet GXP PC (PC-GXP1100- 22F*/PC-GXP1200-22F*) is a lightweight modular operator workstation for use in explosion-hazardous areas according to ATEX and IECEx Zone 1/21 and Zone 2/22.

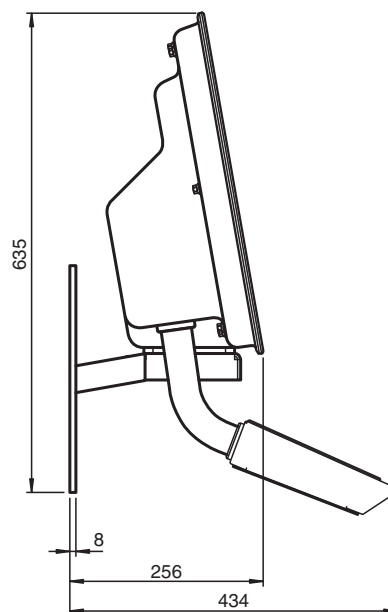
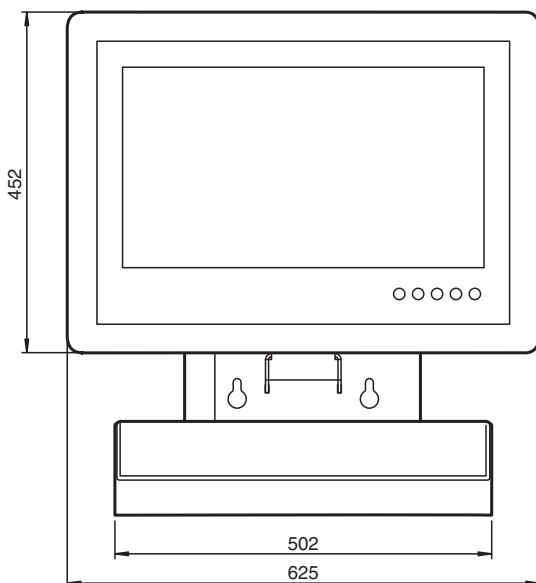
The system assembly consists of three core components that are field replaceable by the customer.

The display unit (DPU1100-*/DPU1200- *) is an explosion-hazardous area-rated display panel with an optional 10 finger multitouch sensor. The display and touch sensor are optically bonded with the hardened front glass.

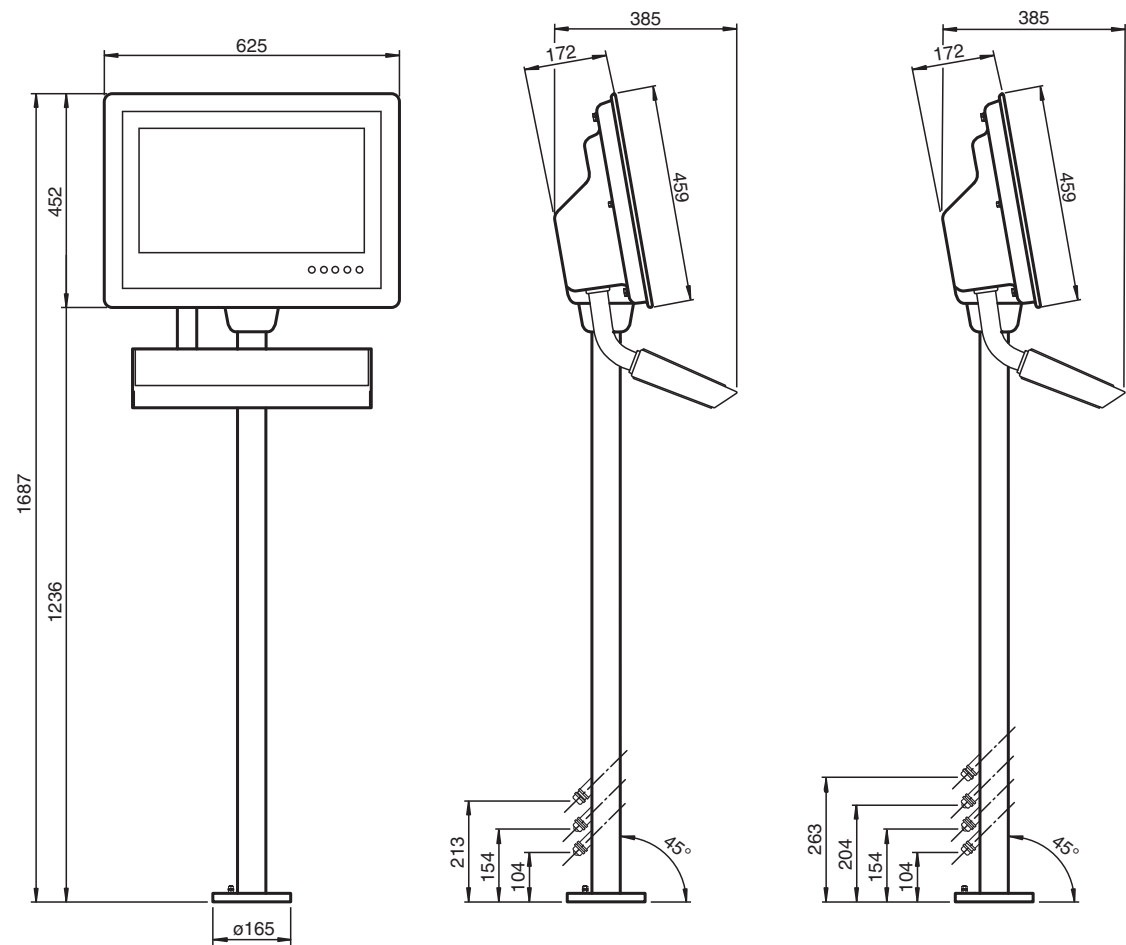
The PC unit (PCU1100-*/PCU1200-*) is an explosion-hazardous area-rated computing unit that runs a pre-installed Microsoft® Windows® operating system. The PC unit allows users to install individual software packages such as SCADA applications to visualize and control their automation application. The power supply units (PSU1100-*/ PSU1200-*) are explosion-hazardous area-rated power supplies that provide the PCU and DPU devices with 24-V DC power.

As a standard mounting option, a bezel is available that allows the panel to be mounted into the system housing or into a cabinet (requires mounting kit). The panel can also be flush-mounted into a cabinet from the back with additional mounting brackets.

Dimensions



Dimensions



Technical Data

General specifications		
Type	Personal Computer	
Hardware		
Processor	Intel® Atom Elkhart Lake x6425RE	
RAM		8 GB
Mass storage	240 GByte industrial grade SSD optional: 480 GByte SSD	
Supply		
Power consumption		
AC		115/230 V AC, 0.4 ... 0.7 A, 50/60 Hz
DC	18 ... 36 V DC , 1.5 ... 3 A	
Indicators/operating means		
Display		
Type		Liquid Crystal Display (LCD) with LED backlight
Screen diagonal	54.61 cm (21.5 inch)	
Resolution		1920 x 1080 pixels (Full HD) Aspect ratio 16:9
Color depth	24 bit (16.7 M) color	
Contrast		5000:1 (typically)
Brightness	300 cd/m² (nit)	
Reading angle		175° in all directions
Life span	back lamp life: 50.000 hrs typical half life , at 25 °C (77 °F)	
Input devices		
Touch screen	optional: projective capacitive; 10 finger multi-touch, glove friendly	

Technical Data

Keyboard	Foil keyboard with different pointing device options available (see EXTA4 datasheet)
Interface	
Interface type	Standard: 1 x Ethernet 100/1000BASE-TX (Ex e) or 1 x fiber optic 1000BASE-SX (Multimode) or 1 x fiber optic 1000BASE-LX (Singlemode), 1 x USB 2.0 (Ex e; service port), 2 x USB 1.1 (Ex i; intended for Pepperl+Fuchs keyboard and mouse), 1 x DC or AC power in (via power supply unit) Optional: "interface 3": 1 x barcode reader interface for wired 1-D scanners IDM-160-D*, IDM-Z1-160-D-* and IDM-164-D-* and base station IDMX61-B*, IDM-Z1-x61-B* and IDM-Z1-x64-B* (Ex i) "interface 4": 1 x barcode reader interface for wired 2-D scanner IDM-Z1-260-D* and IDM-Z1-264-D* (Ex i) "interface 5": 1 x RS-232 interface with Power Supply for miscellaneous devices and peripherals (Ex i) 1 x RS-232 (Ex e) 1 x RS-485 (Ex e) 1 x Ethernet 100/1000Base-TX (Ex e) Bluetooth v4.0, communication distance up to 30 m in open terrain, transmission power +8 dBm, transmission frequency 2.402 ... 2.48 GHz
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013 (industrial locations) non-Bluetooth products only
Radio and telecommunication terminal equipment	
Directive 2014/53/EU	EN 301 328 V2.1.1 EN 301 489-1 V2.1.1 EN 301 489-17 V3.1.1 Bluetooth products only
RoHS	
Directive 2011/65/EU (RoHS)	EN 50581:2012-09
Software	
Operating system	Windows® 10 Enterprise LTSC 2021
Ambient conditions	
Operating temperature	-20 ... 50 °C (-4 ... 122 °F) Display might react sluggishly below 0 °C
Storage temperature	-20 ... 60 °C (-4 ... 140 °F)
Relative humidity	93% at 40°C, non-condensating, according to EN60068-2-78
Altitude	Operating altitude max. 2000 m
Shock resistance	18 shocks 15 g , 11 ms all axis, IEC 60068-2-27
Vibration resistance	10 ... 150 Hz, +/- 0.075 mm , 1g, 10 cycles per axis according to EN60068-2-6
Mechanical specifications	
Degree of protection	IP66 (individual components and entire system with housing)
Material	Internal: Panel: anodized aluminum (TCU, PCU, PSU), powder coated aluminum (DPU) External: Bezel: stainless steel AISI 304 (1.4301) System housing H4: stainless steel AISI 304 (1.4301), bead blasted, typical surface roughness Ra = 1.6 µm
Installation	Flush-mount installation (requires customized mounting kit) Panel-mount installation into system housing with bezel Panel-mount installation into cabinet with Bezel and standard mounting kit
Mass	Panel (DPU with bezel, TCU, PSU DC): approx. 17.5 kg Panel (DPU with bezel, TCU, PSU AC): approx. 18 kg System housing: approx. 11 kg
Dimensions	Panel (DPU with bezel, TCU, PSU DC): 625 mm x 459 mm x 120 mm Panel (DPU with bezel, TCU, PSU AC): 625 mm x 459 mm x 137 mm Panel with system housing: 625 mm x 459 mm x 173 mm Panel cut-out dimensions: 583 mm x 417 mm (installation surface)
Data for application in connection with hazardous areas	
EU-type examination certificate	BVS 17 ATEX E 037 X

Technical Data

Marking	Ⓜ II 3G Ex ec [ib] q IIC T4 IP66 Gc Ⓜ II 3D Ex tc [ib] IIIC T85 °C IP66 Dc	
Directive conformity		
Directive 2014/34/EU	EN 60079-0:2012+A11:2013, EN 60079-7:2015, EN 60079-11:2012, EN 60079-31:2014	
International approvals		
IECEx approval	IECEx BVS 17.0029X	
Approved for		Ex ec [ib] q IIC T4 IP66 Gc Ex tc [ib] IIIC T85 °C IP66 Dc
Standards	IEC 60079-0:2011, IEC 60079-7:2015, IEC 60079-11:2011, IEC 60079-31:2013	

Type Code

PC-GXP 22 inches

PC-GXP	(1)	(2)	(3)	(4)-	(5)-	(6)	(7)	(8)	(9)-	(10)-	(11)
Model											
PC-GXP	VisuNet GXP Personal Computer System										
(1)	Zone										
1100-	Zone 1/21										
1200-	Zone 2/22										
(2)	Display Unit										
22F	21.5 inches (16:9), Full HD (1920 x 1080 pixel)										
(3)	Front Glass & Touch										
N	Anti-glare security glass, no touch										
C	Anti-glare security glass, projective capacitive 10-finger multitouch										
(4)-	Interfaces										
1-	5 x capacitive system front keys										
2-	5 x capacitive system front keys and Bluetooth® interface										
(5)-	Power Supply Unit										
D-	18 ... 36 V DC										
A-	115/230 V AC, 50/60 Hz										
(6)	Interfaces										
E	1 x 1000BASE-T LAN Ex e, 1x USB Ex e, 2x USB Ex i										
S	1 x 1000BASE-SX fiber optic (Multimode), 1x USB Ex e, 2x USB Ex i										
L	1 x 1000BASE-LX fiber optic (Single mode), 1x USB Ex e, 2x USB Ex i										
(7)	Module A										
N	No additional interface module										
1	1 x RS-232 Ex e										
2	1 x RS-485 Ex e										
3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D*, IDM-Z1-164-D* and base station IDMx61-B*, IDM-Z1-x61-B-* and IDM-Z1-x64-B-*										
4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D-* and IDM-Z1-264-D-*										
5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals										
E	1 x 1000BASE-T LAN Ex e										
(8)	Module B										
N	No additional interface module										
1	1 x RS-232 Ex e										
2	1 x RS-485 Ex e										
3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D*, IDM-Z1-164-D-* and base station IDMx61-B*, IDM-Z1-x61-B-* and IDM-Z1-x64-B-*										
4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D-* and IDM-Z1-264-D-*										
5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals										
E	1 x 1000BASE-T LAN Ex e										
(9)	Computing Platform										
P5-	Intel® Elkhart Lake x6425RE, 8-GB RAM, 240-GB SSD, Windows® IoT Enterprise LTSC 2021										
P6-	Intel® Elkhart Lake x6425RE, 8-GB RAM, 480-GB SSD, Windows® IoT Enterprise LTSC 2021										

Type Code

(10)-	Housing
NN-	No bezel, prepared for flush mounting
S1-	Bezel; prepared for panel mounting or into AG-XX00 housing
H4-	Installed into GXP Housing AG-XX00 (SS304), front opening, surface finish 1.6-µm bead blasted

(11)	Options
N0	Standard, no options

Example:

RM-GXP	1100-	22F	N	1-	D-	E	N	N	P5-	S1-	N0
--------	-------	-----	---	----	----	---	---	---	-----	-----	----



Operator Workstation (PC)

VisuNet GXP PC Zone 1/21 (2024 Generation)

PC-GXP1100-22F-* -P5/P6*

- 21.5" (54.61 cm) display
- 16:9 aspect ratio widescreen formatting to match engineering stations
- PC solution with pre-installed Windows® operating system
- Lightweight design
- Full HD Resolution
- Completely modular system for easy field maintainability
- Flush or bezel mounting options
- IP66 rating for each individual component and entire system with housing
- Certified for ATEX and IECEx Zone 1/21

VisuNet GXP PC Zone 1/21 (2024 Generation, Intel® Atom Elkhart Lake Processor)



Function

The VisuNet GXP PC (PC-GXP1100- 22F*/PC-GXP1200-22F*) is a lightweight modular operator workstation for use in explosion-hazardous areas according to ATEX and IECEx Zone 1/21.

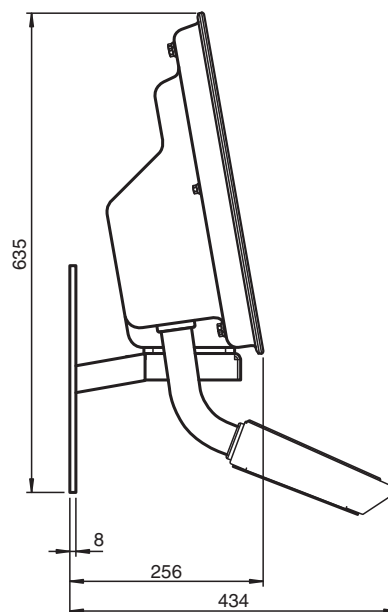
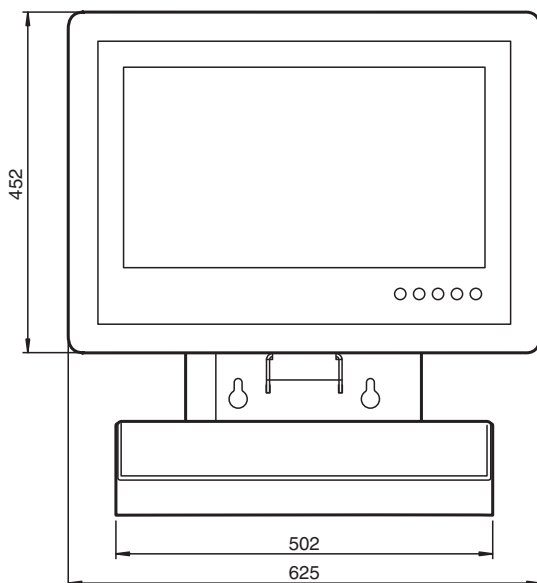
The system assembly consists of three core components that are fieldreplaceable by the customer.

The display unit (DPU1100-*/DPU1200- *) is a hazardous-location rated display panel with an optional 10 finger multitouch sensor. The display and touchsensor are optically bonded with the hardened front glass.

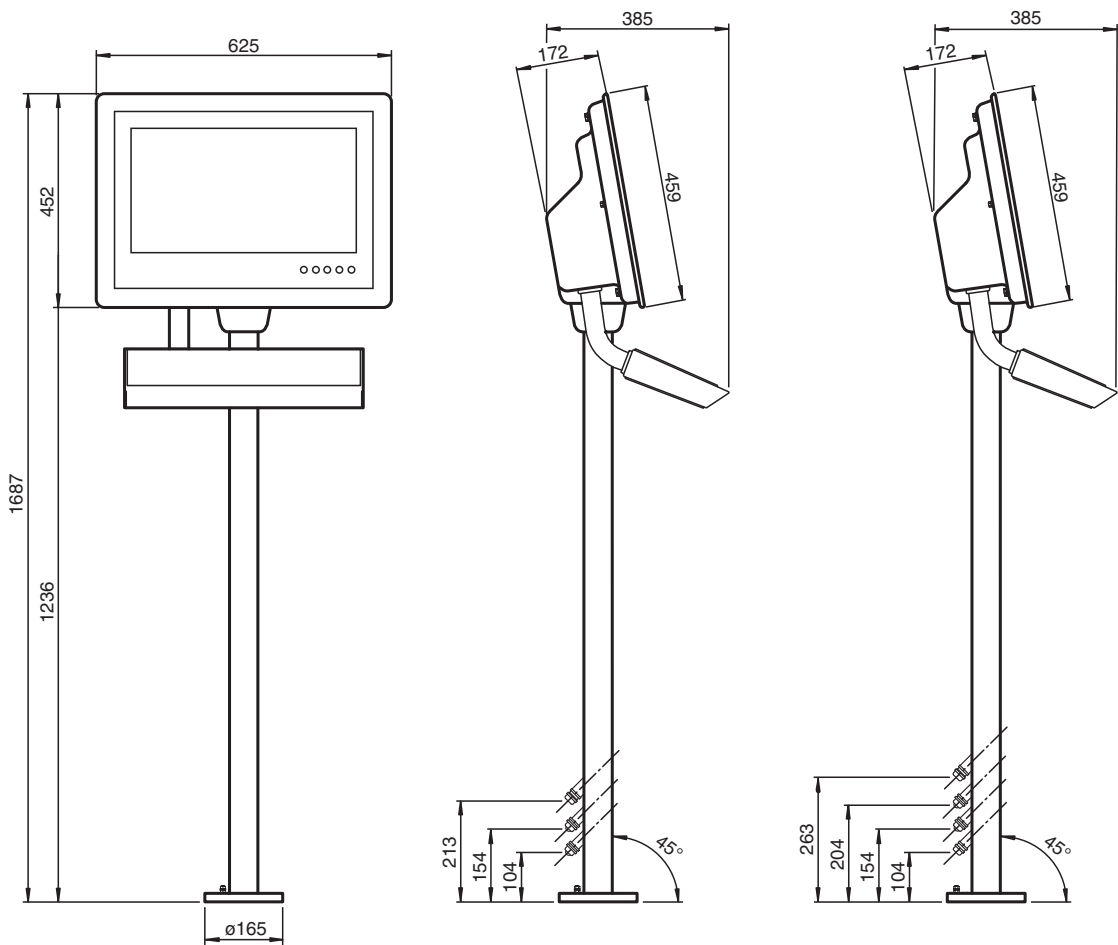
The PC unit (PCU1100-*/PCU1200-*) is a hazardous-location rated computing unit that runs a pre-installed Microsoft Windows operating system. The PC unit allows users to install individual software packages such as SCADA applications to visualize and control their automation application. The power supply units (PSU1100-*/ PSU1200-*) are hazardous-location rated power supplies that provide the PCU and DPU devices with 24 V DC power.

As a standard mounting option, a bezel is available that allows the panel to be mounted into the system housing or into a cabinet (requires mounting kit). The panel can also be flush-mounted into a cabinet from the back with additional mounting brackets.

Dimensions



Dimensions



Technical Data

General specifications		
Type	Personal Computer	
Hardware		
Processor	Intel® Atom Elkhart Lake x6425RE	
RAM		8 GB
Mass storage	240 GByte industrial grade SSD optional: 480 GByte SSD	
Supply		
Power consumption		
AC		115/230 V AC, 0.4 ... 0.7 A, 50/60 Hz
DC	18 ... 36 V DC , 1.5 ... 3 A	
Indicators/operating means		
Display		
Type		Liquid Crystal Display (LCD) with LED backlight
Screen diagonal	54.61 cm (21.5 inch)	
Resolution		1920 x 1080 pixels (Full HD) Aspect ratio 16:9
Color depth	24 bit (16.7 M) color	
Contrast		5000:1 (typically)
Brightness	300 cd/m² (nit)	
Reading angle		175° in all directions
Life span	back lamp life: 50.000 hrs typical half life , at 25 °C (77 °F)	
Input devices		
Touch screen	optional: projective capacitive; 10 finger multi-touch, glove friendly	

Technical Data

Keyboard	Foil keyboard with different pointing device options available (see EXTA4 datasheet)
Interface	
Interface type	Standard: 1 x Ethernet 100/1000BASE-TX (Ex e) or 1 x fiber optic 1000BASE-SX (Multimode) or 1 x fiber optic 1000BASE-LX (Singlemode), 1 x USB 2.0 (Ex e; service port), 2 x USB 1.1 (Ex i; intended for Pepperl+Fuchs keyboard and mouse), 1 x DC or AC power in (via power supply unit) Optional: "interface 3": 1 x barcode reader interface for wired 1-D scanners IDM-160-D*, IDM-Z1-160-D-* and IDM-164-D-* and base station IDMX61-B*, IDM-Z1-x61-B* and IDM-Z1-x64-B* (Ex i) "interface 4": 1 x barcode reader interface for wired 2-D scanner IDM-Z1-260-D* and IDM-Z1-264-D* (Ex i) "interface 5": 1 x RS-232 interface with Power Supply for miscellaneous devices and peripherals (Ex i) 1 x RS-232 (Ex e) 1 x RS-485 (Ex e) 1 x Ethernet 100/1000Base-TX (Ex e) Bluetooth v4.0, communication distance up to 30 m in open terrain, transmission power +8 dBm, transmission frequency 2.402 ... 2.48 GHz
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013 (industrial locations) non-Bluetooth products only
Radio and telecommunication terminal equipment	
Directive 2014/53/EU	EN 301 328 V2.1.1 EN 301 489-1 V2.1.1 EN 301 489-17 V3.1.1 Bluetooth products only
RoHS	
Directive 2011/65/EU (RoHS)	EN 50581:2012-09
Software	
Operating system	Windows® 10 Enterprise LTSC 2021
Ambient conditions	
Operating temperature	-20 ... 50 °C (-4 ... 122 °F) Display might react sluggishly below 0 °C
Storage temperature	-20 ... 60 °C (-4 ... 140 °F)
Relative humidity	93% at 40°C, non-condensating, according to EN60068-2-78
Altitude	Operating altitude max. 2000 m
Shock resistance	18 shocks 15 g , 11 ms all axis, IEC 60068-2-27
Vibration resistance	10 ... 150 Hz, +/- 0.075 mm , 1g, 10 cycles per axis according to EN60068-2-6
Mechanical specifications	
Degree of protection	IP66 (individual components and entire system with housing)
Material	Internal: Panel: anodized aluminum (TCU, PCU, PSU), powder coated aluminum (DPU) External: Bezel: stainless steel AISI 304 (1.4301) System housing H4: stainless steel AISI 304 (1.4301), bead blasted, typical surface roughness Ra = 1.6 µm
Installation	Flush-mount installation (requires customized mounting kit) Panel-mount installation into system housing with bezel Panel-mount installation into cabinet with Bezel and standard mounting kit
Mass	Panel (DPU with bezel, TCU, PSU DC): approx. 23 kg Panel (DPU with bezel, TCU, PSU AC): approx. 24 kg System housing (AG-XX00): approx. 11 kg
Dimensions	Panel (DPU with bezel, TCU, PSU DC): 625 mm x 459 mm x 120 mm Panel (DPU with bezel, TCU, PSU AC): 625 mm x 459 mm x 137 mm Panel with system housing: 625 mm x 459 mm x 173 mm Panel cut-out dimensions: 583 mm x 417 mm (installation surface)
Data for application in connection with hazardous areas	
EU-type examination certificate	BVS 17 ATEX E 036 X

Technical Data

Marking	Ex II 2G Ex eb q ib [ib] IIC T4 IP66 Gb Ex II 2D Ex tb [ib] IIIC T85°C IP66 Db	
Directive conformity		
Directive 2014/34/EU	EN 60079-0:2012+A11:2013, EN 60079-5:2015, EN 60079-7:2015, EN 60079-11:2012, EN 60079-31:2014	
International approvals		
IECEx approval	IECEx BVS 17.0029X	
Approved for		Ex eb q ib [ib] IIC T4 IP66 Gb Ex tb [ib] IIIC T85°C IP66 Db
Standards	IEC 60079-0:2011, IEC 60079-5:2015, IEC 60079-7:2015, IEC 60079-11:2011, IEC 60079-31:2013	

Type Code

PC-GXP 22 inches

PC-GXP	(1)	(2)	(3)	(4)-	(5)-	(6)	(7)	(8)	(9)-	(10)-	(11)
--------	-----	-----	-----	------	------	-----	-----	-----	------	-------	------

Model

PC-GXP	VisuNet GXP Personal Computer System										
--------	--------------------------------------	--	--	--	--	--	--	--	--	--	--

(1) Zone

1100-	Zone 1/21
1200-	Zone 2/22

(2) Display Unit

22F	21.5 inches (16:9), Full HD (1920 x 1080 pixel)
-----	---

(3) Front Glass & Touch

N	Anti-glare security glass, no touch
C	Anti-glare security glass, projective capacitive 10-finger multitouch

(4)- Interfaces

1-	5 x capacitive system front keys
2-	5 x capacitive system front keys and Bluetooth® interface

(5)- Power Supply Unit

D-	18 ... 36 V DC
A-	115/230 V AC, 50/60 Hz

(6) Interfaces

E	1 x 1000BASE-T LAN Ex e, 1x USB Ex e, 2x USB Ex i
S	1 x 1000BASE-SX fiber optic (Multimode), 1x USB Ex e, 2x USB Ex i
L	1 x 1000BASE-LX fiber optic (Single mode), 1x USB Ex e, 2x USB Ex i

(7) Module A

N	No additional interface module
1	1 x RS-232 Ex e
2	1 x RS-485 Ex e
3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D*, IDM-Z1-164-D* and base station IDMx61-B*, IDM-Z1-x61-B* and IDM-Z1-x64-B*
4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D* and IDM-Z1-264-D*
5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals
E	1 x 1000BASE-T LAN Ex e

(8) Module B

N	No additional interface module
1	1 x RS-232 Ex e
2	1 x RS-485 Ex e
3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D*, IDM-Z1-164-D* and base station IDMx61-B*, IDM-Z1-x61-B* and IDM-Z1-x64-B*
4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D* and IDM-Z1-264-D*
5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals
E	1 x 1000BASE-T LAN Ex e

(9) Computing Platform

P5-	Intel® Elkhart Lake x6425RE, 8-GB RAM, 240-GB SSD, Windows® IoT Enterprise LTSC 2021
P6-	Intel® Elkhart Lake x6425RE, 8-GB RAM, 480-GB SSD, Windows® IoT Enterprise LTSC 2021

Type Code

(10)-	Housing
NN-	No bezel, prepared for flush mounting
S1-	Bezel; prepared for panel mounting or into AG-XX00 housing
H4-	Installed into GXP Housing AG-XX00 (SS304), front opening, surface finish 1.6-µm bead blasted

(11)	Options
N0	Standard, no options

Example:

RM-GXP	1100-	22F	N	1-	D-	E	N	N	P5-	S1-	N0
--------	-------	-----	---	----	----	---	---	---	-----	-----	----



Operator Workstation (PC)

VisuNet GXP PC Zone 1/21 (2024 Generation)

PC-GXP1100-19S-* -P5/P6*

- 19 in (48 cm) display
- PC solution with pre-installed Windows® operating system
- Lightweight design
- Completely modular system for easy field maintainability
- Flush or bezel mounting options
- IP66 rating for each individual component and entire system with housing
- Certified for ATEX and IECEx Zone 1/21

VisuNet GXP PC Zone 1/21 (2024 Generation, Intel® Atom Elkhart Lake Processor)



Function

The VisuNet GXP PC (PC-GXP1100-19S*/PC-GXP1200-19S*) is a lightweight modular operator workstation for use in explosion-hazardous areas according to ATEX and IECEx Zone 1/21.

The system assembly consists of three core components that are fieldreplaceable by the customer.

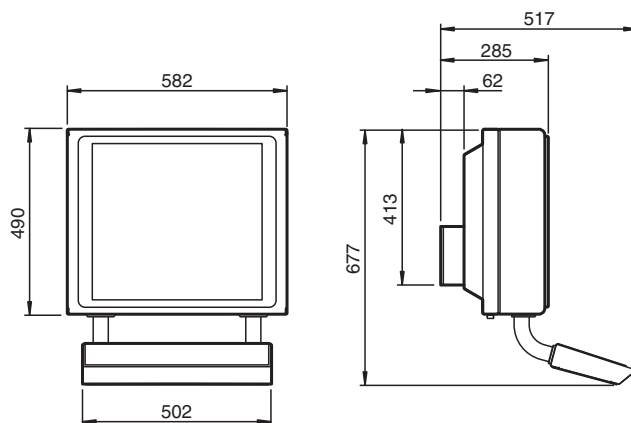
The display unit (DPU1100-*/DPU1200-*) is a hazardous-location rated display panel with an optional 10 finger multitouch sensor. The display and touchsensor are optically bonded with the hardened front glass.

The PC unit (PCU1100-*/PCU1200-*) is a hazardous-location rated computing unit that runs a pre-installed Microsoft Windows operating system. The PC unit allows users to install individual software packages such as SCADA applications to visualize and control their automation application.

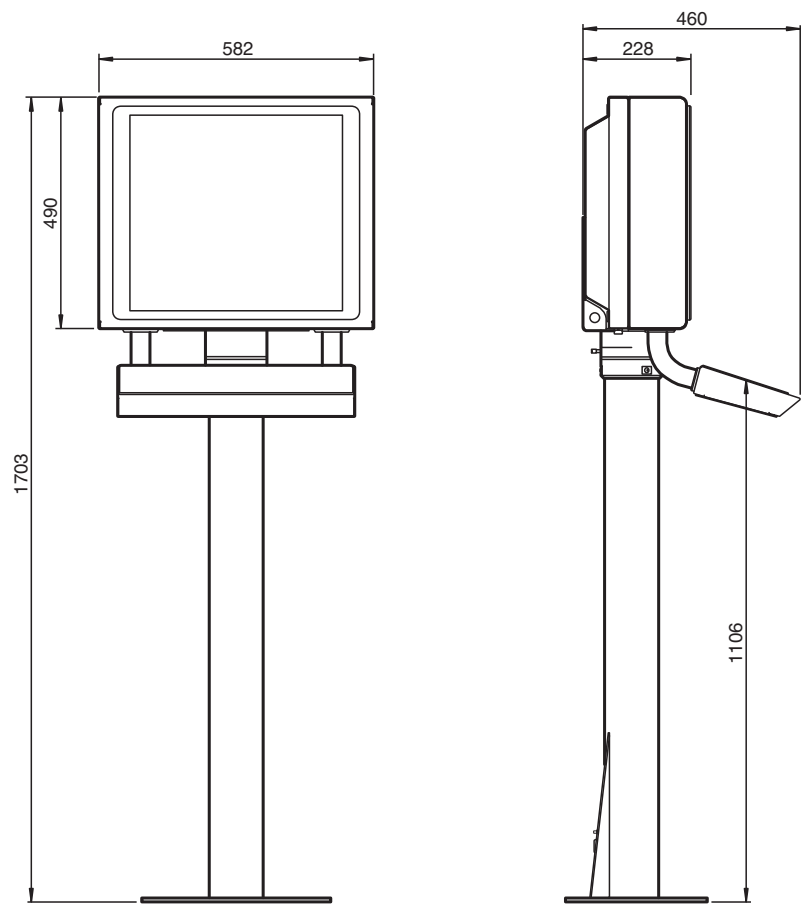
The power supply units (PSU1100-*/PSU1200-*) are hazardous-location rated power supplies that provide the PCU and DPU devices with 24 V DC power.

As a standard mounting option, a bezel is available that allows the panel to be mounted into the system housing or into a cabinet (requires mounting kit). The panel can also be flush-mounted into a cabinet from the back with additional mounting brackets.

Dimensions



Dimensions



Technical Data

General specifications		
Type	Personal Computer	
Hardware		
Processor	Intel® Atom Elkhart Lake x6425RE	
RAM		8 GB
Mass storage	240 GByte industrial grade SSD optional: 480 GByte SSD	
Supply		
Power consumption		
AC		115/230 V AC, 0.4 ... 0.7 A, 50/60 Hz
DC	18 ... 36 V DC , 1.5 ... 3 A	
Indicators/operating means		
Display		
Type		Liquid Crystal Display (LCD) with LED backlight
Screen diagonal	48.26 cm (19 inch)	
Resolution		1280 x 1024 (SXGA) , Aspect ratio 5:4
Color depth	24 bit (16.7 M) color	
Contrast		1000:1
Brightness	450 cd/m² (nit)	
Reading angle		170° horizontal 160° vertical
Life span	back lamp life: 50.000 hrs typical half life , at 25 °C (77 °F)	
Input devices		
Touch screen	optional: projective capacitive; 10 finger multi-touch, glove friendly	
Keyboard	Foil keyboard with different pointing device options available (see EXTA4 datasheet)	

Technical Data

Interface

Interface type	Standard: 1 x Ethernet 100/1000BASE-TX (Ex e) or 1 x fiber optic 1000BASE-SX (Multimode) or 1 x fiber optic 1000BASE-LX (Singlemode), 1 x USB 2.0 (Ex e; service port), 2 x USB 1.1 (Ex i; intended for Pepperl+Fuchs keyboard and mouse), 1 x DC or AC power in (via power supply unit) Optional: "interface 3": 1 x barcode reader interface for wired 1-D scanners IDM-160-D*, IDM-Z1-160-D-* and IDM-164-D-* and base station IDMx61-B-*, IDM-Z1-x61-B-* and IDM-Z1-x64-B-* (Ex i) "interface 4": 1 x barcode reader interface for wired 2-D scanner IDM-Z1-260-D-* and IDM-Z1-264-D-* (Ex i) "interface 5": 1 x RS-232 interface with Power Supply for miscellaneous devices and peripherals (Ex i) 1 x RS-232 (Ex e) 1 x RS-485 (Ex e) 1 x Ethernet 100/1000Base-TX (Ex e) Bluetooth v4.0, communication distance up to 30 m in open terrain, transmission power +8 dBm, transmission frequency 2.402 ... 2.48 GHz
----------------	---

Directive conformity

Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations) non-Bluetooth products only
Radio and telecommunication terminal equipment		
Directive 2014/53/EU		EN 301 328 V2.1.1 EN 301 489-1 V2.1.1 EN 301 489-17 V3.1.1 Bluetooth products only
RoHS		
Directive 2011/65/EU (RoHS)		EN 50581:2012-09

Software

Operating system	Windows® 10 Enterprise LTSC 2021
------------------	----------------------------------

Ambient conditions

Operating temperature	-20 ... 50 °C (-4 ... 122 °F)
Storage temperature	-20 ... 60 °C (-4 ... 140 °F)
Relative humidity	93% at 40°C, non-condensating, according to EN60068-2-78
Altitude	Operating altitude max. 2000 m
Shock resistance	18 shocks 15 g , 11 ms all axis, IEC 60068-2-27
Vibration resistance	10 ... 150 Hz, +/- 0.075 mm , 1g, 10 cycles per axis according to EN60068-2-6

Mechanical specifications

Degree of protection	IP66 (individual components and entire system with housing)
Material	Internal: Panel: anodized aluminum (TCU, PSU), powder coated aluminum (DPU) External: Bezel: stainless steel AISI 304 (1.4301) System housing: stainless steel AISI 304 (1.4301), bead blasted, typical surface roughness Ra = 1.6 µm
Installation	Flush-mount installation (requires customized mounting kit) Panel-mount installation into system housing with bezel Panel-mount installation into cabinet with Bezel and standard mounting kit
Mass	panel with DC: 22 kg , panel with AC: 23 kg , system housing AG1: 19 kg
Dimensions	panel with DC: 524 mm x 453 mm x 120 mm panel with AC: 524 mm x 453 mm x 137 mm panel with AG1 housing: 582 mm x 490 mm x 224 mm

Data for application in connection with hazardous areas

EU-type examination certificate	BVS 17 ATEX E 036 X
Marking	Ⓔ II 2G Ex eb q ib [ib] IIC T4 IP66 Gb Ⓔ II 2D Ex tb [ib] IIIC T85°C IP66 Db
Directive conformity	

Technical Data

Directive 2014/34/EU		EN 60079-0:2012+A11:2013, EN 60079-5:2015, EN 60079-7:2015, EN 60079-11:2012, EN 60079-31:2014	
International approvals			
IECEx approval		IECEx BVS 17.0029X	
Approved for		Ex eb q ib [ib] IIC T4 IP66 Gb Ex tb [ib] IIIC T85°C IP66 Db	
Standards		IEC 60079-0:2011, IEC 60079-5:2015, IEC 60079-7:2015, IEC 60079-11:2011, IEC 60079-31:2013	

Type Code

PC-GXP 19 inches

PC-GXP	(1)	(2)	(3)	(4)-	(5)-	(6)	(7)	(8)	(9)-	(10)-	(11)
--------	-----	-----	-----	------	------	-----	-----	-----	------	-------	------

Model	
PC-GXP	VisuNet GXP Personal Computer System
(1)	Zone
1100-	Zone 1/21
1200-	Zone 2/22
(2)	Display Unit
19S	19 inches, SXGA (1280 x 1024)
(3)	Front Glass & Touch
N	Anti-glare security glass, no touch
C	Anti-glare security glass, projective capacitive 10-finger multitouch
(4)-	Interfaces
1-	5 x capacitive system front keys
2-	5 x capacitive system front keys and Bluetooth® interface
(5)-	Power Supply Unit
D-	18 ... 36 V DC
A-	115/230 V AC, 50/60 Hz
(6)	Interfaces
E	1 x 1000BASE-T LAN Ex e, 1x USB Ex e, 2x USB Ex i
S	1 x 1000BASE-SX fiber optic (Multimode), 1x USB Ex e, 2x USB Ex i
L	1 x 1000BASE-LX fiber optic (Single mode), 1x USB Ex e, 2x USB Ex i
(7)	Module A
N	No additional interface module
1	1 x RS-232 Ex e
2	1 x RS-485 Ex e
3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D*, IDM-Z1-164-D* and base station IDmx61-B*, IDM-Z1-x61-B-* and IDM-Z1-x64-B-*
4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D* and IDM-Z1-264-D*
5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals
E	1 x 1000BASE-T LAN Ex e
(8)	Module B
N	No additional interface module
1	1 x RS-232 Ex e
2	1 x RS-485 Ex e
3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D*, IDM-Z1-164-D* and base station IDmx61-B*, IDM-Z1-x61-B-* and IDM-Z1-x64-B-*
4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D* and IDM-Z1-264-D*
5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals
E	1 x 1000BASE-T LAN Ex e
(9)	Computing Platform
P5-	Intel® Elkhart Lake x6425RE, 8-GB RAM, 240-GB SSD, Windows® IoT Enterprise LTSC 2021
P6-	Intel® Elkhart Lake x6425RE, 8-GB RAM, 480-GB SSD, Windows® IoT Enterprise LTSC 2021
(10)-	Housing
NN-	No bezel, prepared for flush mount

Type Code

(10)-	Housing
S2-	Bezel; prepared for panel mounting or into AG1 housing
H2-	Installed into EX1 AG1 housing (SS304), front opening, for pedestal/ceiling/wall-arm

(11)	Options
N0	Standard, no options

Example:

RM-GXP	1100-	19S	N	1-	D-	E	N	N	P5-	S1-	N0
--------	-------	-----	---	----	----	---	---	---	-----	-----	----



Operator Workstation (RM)

VisuNet GXP Remote Monitor (RM)

Zone 2/22 (2024 Generation)

RM-GXP1200-22F-*-T4*

- 21.5" (54.61 cm) display
- 16:9 aspect ratio widescreen formatting to match engineering stations
- Thin Client solution (with VisuNet RM Shell firmware)
- Lightweight design
- Full HD Resolution
- Completely modular system for easy field maintainability
- Flush or bezel mounting options
- IP66 rating for each individual component and entire system with housing
- Certified for ATEX and IECEx Zone 2/22

VisuNet GXP Remote Monitor Zone 2/22 (2024 Generation, Intel® Atom Elkhart Lake Processor)



Function

The VisuNet GXP Remote Monitor (RM-GXP1100- 22F*/RM-GXP1200-22F*) is a lightweight modular operator workstation for use in explosion-hazardous areas according to ATEX and IECEx Zone 1/21.

The system assembly consists of three core components that are fieldreplaceable by the customer.

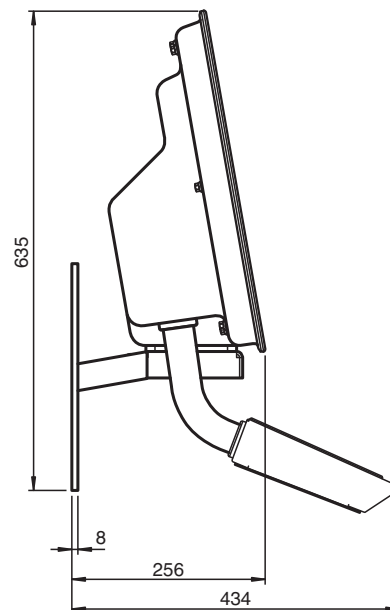
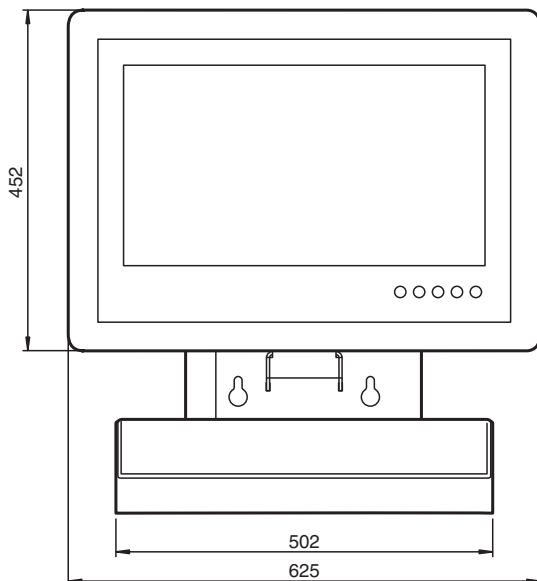
The display unit (DPU1100-*/DPU1200- *) is a hazardous-location rated display panel with an optional 10 finger multitouch sensor. The display and touchsensor are optically bonded with the hardened front glass.

The thin client unit (TCU1100-*/ TCU1200-*) is a hazardous-location rated computing unit that runs the latest Pepperl+Fuchs RM Shell firmware. The TCU allows connection to various host systems in the safe area, using standard Ethernet technology.

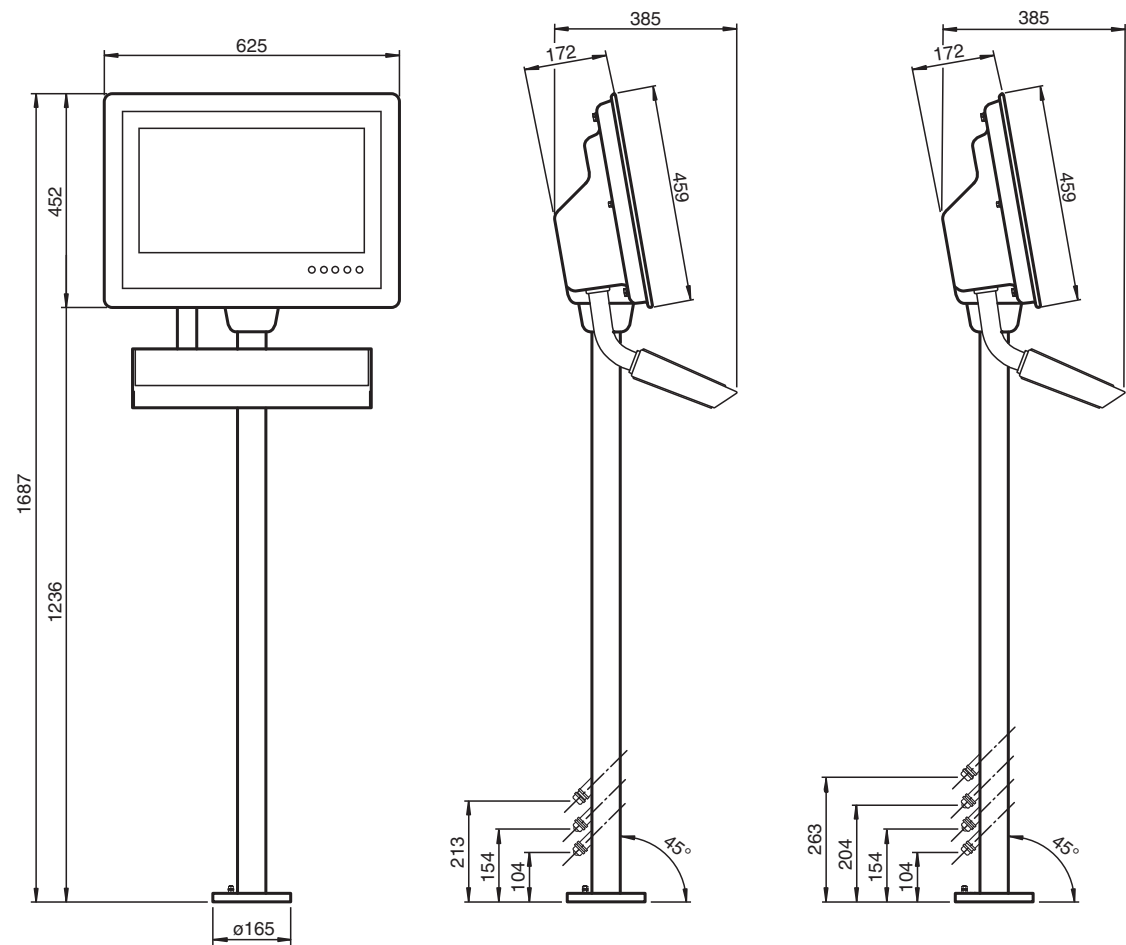
The power supply units (PSU1100-*/ PSU1200-*) are hazardous-location rated power supplies, providing the TCU and DPU devices with 24 V DC power.

As a standard mounting option, a bezel is available that allows the panel to be mounted into the system housing or into a cabinet (requires mounting kit). The panel can also be flush-mounted into a cabinet from the back with additional mounting brackets.

Dimensions



Dimensions



Technical Data

General specifications		
Type	Remote Monitor	
Hardware		
Processor	Intel® Atom Elkhart Lake x6211E	
RAM		4 GB
Mass storage	64 GByte eMMC	
Supply		
Power consumption		
AC		115/230 V AC, 0.4 ... 0.7 A, 50/60 Hz
DC	18 ... 36 V DC , 1.5 ... 3 A	
Indicators/operating means		
Display		
Type		Liquid Crystal Display (LCD) with LED backlight
Screen diagonal	54.61 cm (21.5 inch)	
Resolution		1920 x 1080 pixels (Full HD) Aspect ratio 16:9
Color depth	24 bit (16.7 M) color	
Contrast		5000:1 (typically)
Brightness	300 cd/m² (nit)	
Reading angle		175° in all directions
Life span	back lamp life: 50.000 hrs typical half life , at 25 °C (77 °F)	
Input devices		
Touch screen	optional: projective capacitive; 10 finger multi-touch, glove friendly	

Technical Data

Keyboard	Foil keyboard with different pointing device options available (see EXTA4 datasheet)
Interface	
Interface type	Standard: 1 x Ethernet 100/1000BASE-TX (Ex e) or 1 x fiber optic 1000BASE-SX (Multimode) or 1 x fiber optic 1000BASE-LX (Singlemode), 1 x USB 2.0 (Ex e; service port), 2 x USB 1.1 (Ex i; intended for Pepperl+Fuchs keyboard and mouse), 1 x DC or AC power in (via power supply unit) Optional: "interface 3": 1 x barcode reader interface for wired 1-D scanners IDM-160-D*, IDM-Z1-160-D-* and IDM-164-D-* and base station IDMX61-B*, IDM-Z1-x61-B-* and IDM-Z1-x64-B-* (Ex i) "interface 4": 1 x barcode reader interface for wired 2-D scanner IDM-Z1-260-D-* and IDM-Z1-264-D-* (Ex i) "interface 5": 1 x RS-232 interface with Power Supply for miscellaneous devices and peripherals (Ex i) 1 x RS-232 (Ex e) 1 x RS-485 (Ex e) 1 x Ethernet 100/1000Base-TX (Ex e) Bluetooth v4.0, communication distance up to 30 m in open terrain, transmission power +8 dBm, transmission frequency 2.402 ... 2.48 GHz
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013 (industrial locations) non-Bluetooth products only
Radio and telecommunication terminal equipment	
Directive 2014/53/EU	EN 301 328 V2.1.1 EN 301 489-1 V2.1.1 EN 301 489-17 V3.1.1 Bluetooth products only
RoHS	
Directive 2011/65/EU (RoHS)	EN 50581:2012-09
Software	
Operating system	VisuNet RM Shell 6 (based on Windows® 10 Enterprise LTSC 2021) Optional: TJ-: IGEL OS 12 (based on Linux, pre-installed without licence) TI-: IGEL OS 11 (based on Linux, pre-installed without licence) (pending)
Ambient conditions	
Operating temperature	-20 ... 50 °C (-4 ... 122 °F) Display might react sluggishly below 0 °C
Storage temperature	-20 ... 60 °C (-4 ... 140 °F)
Relative humidity	93% at 40°C, non-condensating, according to EN60068-2-78
Altitude	Operating altitude max. 2000 m
Shock resistance	18 shocks 15 g , 11 ms all axis, IEC 60068-2-27
Vibration resistance	10 ... 150 Hz, +/- 0.075 mm , 1g, 10 cycles per axis according to EN60068-2-6
Mechanical specifications	
Degree of protection	IP66 (individual components and entire system with housing)
Material	Internal: Panel: anodized aluminum (TCU, PCU, PSU), powder coated aluminum (DPU) External: Bezel: stainless steel AISI 304 (1.4301) System housing H4: stainless steel AISI 304 (1.4301), bead blasted, typical surface roughness Ra = 1.6 µm
Installation	Flush-mount installation (requires customized mounting kit) Panel-mount installation into system housing with bezel Panel-mount installation into cabinet with Bezel and standard mounting kit
Mass	Panel (DPU with bezel, TCU, PSU DC): approx. 17.5 kg Panel (DPU with bezel, TCU, PSU AC): approx. 18 kg System housing: approx. 11 kg
Dimensions	Panel (DPU with bezel, TCU, PSU DC): 625 mm x 459 mm x 120 mm Panel (DPU with bezel, TCU, PSU AC): 625 mm x 459 mm x 137 mm Panel with system housing: 625 mm x 459 mm x 173 mm Panel cut-out dimensions: 583 mm x 417 mm (installation surface)

Technical Data

Note	* see nameplate: 2021 alternative, processor cannot be selected		
Data for application in connection with hazardous areas			
EU-type examination certificate		BVS 17 ATEX E 037 X	
Marking		Ⓜ II 3G Ex ec [ib] q IIC T4 IP66 Gc Ⓜ II 3D Ex tc [ib] IIIC T85 °C IP66 Dc	
Directive conformity			
Directive 2014/34/EU		EN 60079-0:2012+A11:2013, EN 60079-7:2015, EN 60079-11:2012, EN 60079-31:2014	
International approvals			
IECEx approval		IECEx BVS 17.0029X	
Approved for		Ex ec [ib] q IIC T4 IP66 Gc Ex tc [ib] IIIC T85 °C IP66 Dc	
Standards		IEC 60079-0:2011, IEC 60079-7:2015, IEC 60079-11:2011, IEC 60079-31:2013	

Type Code

RM-GXP 22 inches

RM-GXP	(1)	(2)	(3)	(4)-	(5)-	(6)	(7)	(8)	(9)-	(10)-	(11)
--------	-----	-----	-----	------	------	-----	-----	-----	------	-------	------

Model	
RM-GXP	VisuNet GXP Remote Monitor System

(1)	Zone
1100-	Zone 1/21
1200-	Zone 2/22

(2)	Display Unit
22F	21.5 inches (16:9), Full HD (1920 x 1080 pixel)

(3)	Front Glass & Touch
N	Anti-glare security glass, no touch
C	Anti-glare security glass, projective capacitive 10-finger multitouch

(4)-	Interfaces
1-	5 x capacitive system front keys
2-	5 x capacitive system front keys and Bluetooth® interface

(5)-	Power Supply Unit
D-	18 ... 36 V DC
A-	115/230 V AC, 50/60 Hz

(6)	Interfaces
E	1 x 1000BASE-T LAN Ex e, 1x USB Ex e, 2x USB Ex i
S	1 x 1000BASE-SX fiber optic (Multimode), 1x USB Ex e, 2x USB Ex i
L	1 x 1000BASE-LX fiber optic (Single mode), 1x USB Ex e, 2x USB Ex i

(7)	Module A
N	No additional interface module
1	1 x RS-232 Ex e
2	1 x RS-485 Ex e
3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D*, IDM-Z1-164-D* and base station IDMx61-B*, IDM-Z1-x61-B* and IDM-Z1-x64-B*
4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D* and IDM-Z1-264-D*
5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals
E	1 x 1000BASE-T LAN Ex e

(8)	Module B
N	No additional interface module
1	1 x RS-232 Ex e
2	1 x RS-485 Ex e
3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D*, IDM-Z1-164-D* and base station IDMx61-B*, IDM-Z1-x61-B* and IDM-Z1-x64-B*
4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D* and IDM-Z1-264-D*
5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals
E	1 x 1000BASE-T LAN Ex e

Type Code

(9)	Computing Platform
T4-	Intel® Atom Elkhart Lake x6211E, 4-GB RAM, 64-GB SSD, VisuNet RM Shell 6.x (based on Windows® IoT LTSC 2021)
TJ-	Intel® Atom Elkhart Lake x6211E, 4-GB RAM, 64-GB SSD, IGEL OS 12 (based on Linux)
TI-	Intel® Atom Elkhart Lake x6211E, 4-GB RAM, 64-GB SSD, IGEL OS 11 (based on Linux)

(10)-	Housing
NN-	No bezel, prepared for flush mounting
S1-	Bezel; prepared for panel mounting or into AG-XX00 housing
H4-	Installed into GXP Housing AG-XX00 (SS304), front opening, surface finish 1.6-µm bead blasted

(11)	Options
N0	Standard, no options

Example:

RM-GXP	1100-	22F	N	1-	D-	E	N	N	T4-	S1-	N0
--------	-------	-----	---	----	----	---	---	---	-----	-----	----



Operator Workstation (RM)

VisuNet GXP Remote Monitor (RM)

Zone 2/22 (2024 Generation)

RM-GXP1200-19S-* -T4*

- 19 in (48 cm) display
- Thin Client solution (with VisuNet RM Shell firmware)
- Lightweight design
- Completely modular system for easy field maintainability
- Flush or bezel mounting options
- IP66 rating for each individual component and entire system with housing
- Certified for ATEX and IECEx Zone 2/22

VisuNet GXP Remote Monitor Zone 2/22 (2024 Generation, Intel® Atom Elkhart Lake Processor)



Function

The VisuNet GXP Remote Monitor (RM-GXP1100- 19S*/RM-GXP1200-19S*) is a lightweight modular operator workstation for use in explosion-hazardous areas according to ATEX and IECEx Zone 1/21.

The system assembly consists of three core components that are fieldreplaceable by the customer.

The display unit (DPU1100-*/DPU1200-*) is a hazardous-location rated display panel with an optional 10 finger multitouch sensor. The display and touchsensor are optically bonded with the hardened front glass.

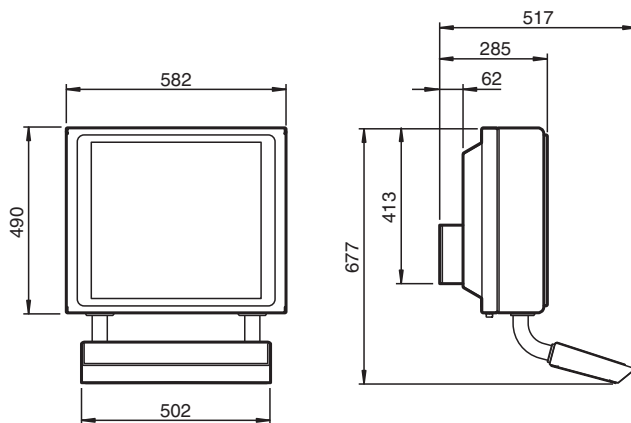
The thin client unit (TCU1100-*/ TCU1200-*) is a hazardous-location rated computing unit that runs the latest Pepperl+Fuchs RM Shell firmware.

The TCU allows connection to various host systems in the safe area, using standard Ethernet technology.

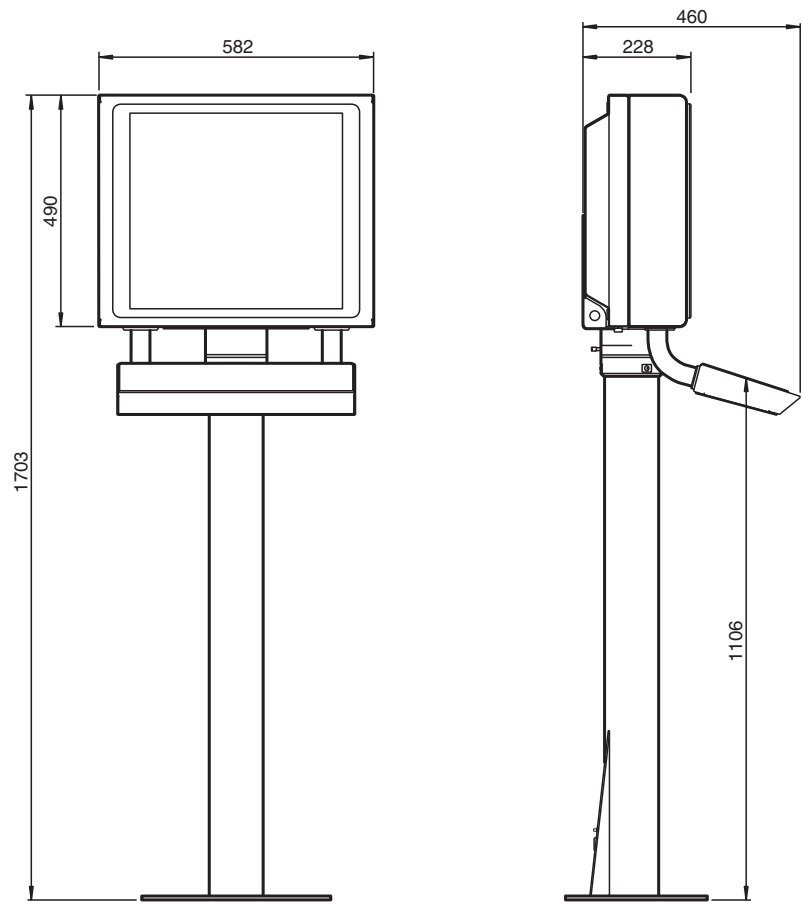
The power supply units (PSU1100-*/ PSU1200-*) are hazardous-location rated power supplies, providing the TCU and DPU devices with 24 V DC power.

As a standard mounting option, a bezel is available that allows the panel to be mounted into the system housing or into a cabinet (requires mounting kit). The panel can also be flush-mounted into a cabinet from the back with additional mounting brackets.

Dimensions



Dimensions



Technical Data

General specifications		
Type	Remote Monitor	
Hardware		
Processor	Intel® Atom Elkhart Lake x6211E	
RAM		4 GB
Mass storage	64 GByte eMMC	
Supply		
Power consumption		
AC		115/230 V AC, 0.4 ... 0.7 A, 50/60 Hz
DC	18 ... 36 V DC , 1.5 ... 3 A	
Indicators/operating means		
Display		
Type		Liquid Crystal Display (LCD) with LED backlight
Screen diagonal	48.26 cm (19 inch)	
Resolution		1280 x 1024 (SXGA) , Aspect ratio 5:4
Color depth	24 bit (16.7 M) color	
Contrast		1000:1
Brightness	450 cd/m² (nit)	
Reading angle		170° horizontal 160° vertical
Life span	back lamp life: 50.000 hrs typical half life , at 25 °C (77 °F)	
Input devices		
Touch screen	optional: projective capacitive; 10 finger multi-touch, glove friendly	
Keyboard	Foil keyboard with different pointing device options available (see EXTA4 datasheet)	

Technical Data

Interface

Interface type	Standard: 1 x Ethernet 100/1000BASE-TX (Ex e) or 1 x fiber optic 1000BASE-SX (Multimode) or 1 x fiber optic 1000BASE-LX (Singlemode), 1 x USB 2.0 (Ex e; service port), 2 x USB 1.1 (Ex i; intended for Pepperl+Fuchs keyboard and mouse), 1 x DC or AC power in (via power supply unit) Optional: "interface 3": 1 x barcode reader interface for wired 1-D scanners IDM-160-D*, IDM-Z1-160-D-* and IDM-164-D-* and base station IDMx61-B*, IDM-Z1-x61-B-* and IDM-Z1-x64-B-* (Ex i) "interface 4": 1 x barcode reader interface for wired 2-D scanner IDM-Z1-260-D-* and IDM-Z1-264-D-* (Ex i) "interface 5": 1 x RS-232 interface with Power Supply for miscellaneous devices and peripherals (Ex i) 1 x RS-232 (Ex e) 1 x RS-485 (Ex e) 1 x Ethernet 100/1000Base-TX (Ex e) Bluetooth v4.0, communication distance up to 30 m in open terrain, transmission power +8 dBm, transmission frequency 2.402 ... 2.48 GHz
----------------	--

Directive conformity

Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations) non-Bluetooth products only
Radio and telecommunication terminal equipment		
Directive 2014/53/EU		EN 301 328 V2.1.1 EN 301 489-1 V2.1.1 EN 301 489-17 V3.1.1 Bluetooth products only
RoHS		
Directive 2011/65/EU (RoHS)		EN 50581:2012-09

Software

Operating system	VisuNet RM Shell 6 (based on Windows® 10 Enterprise LTSC 2021) Optional: TJ-: IGEL OS 12 (based on Linux, pre-installed without licence) TI-: IGEL OS 11 (based on Linux, pre-installed without licence) (pending)
------------------	---

Ambient conditions

Operating temperature	-20 ... 50 °C (-4 ... 122 °F)
Storage temperature	-20 ... 60 °C (-4 ... 140 °F)
Relative humidity	93% at 40°C, non-condensating, according to EN60068-2-78
Altitude	Operating altitude max. 2000 m
Shock resistance	18 shocks 15 g , 11 ms all axis, IEC 60068-2-27
Vibration resistance	10 ... 150 Hz, +/- 0.075 mm , 1g, 10 cycles per axis according to EN60068-2-6

Mechanical specifications

Degree of protection	IP66 (individual components and entire system with housing)
Material	Internal: Panel: anodized aluminum (TCU, PSU), powder coated aluminum (DPU) External: Bezel: stainless steel AISI 304 (1.4301) System housing: stainless steel AISI 304 (1.4301), bead blasted, typical surface roughness Ra = 1.6 µm
Installation	Flush-mount installation (requires customized mounting kit) Panel-mount installation into system housing with bezel Panel-mount installation into cabinet with Bezel and standard mounting kit
Mass	panel with DC: 22 kg , panel with AC: 23 kg , system housing AG1: 19 kg
Dimensions	panel with DC: 524 mm x 453 mm x 120 mm panel with AC: 524 mm x 453 mm x 137 mm panel with AG1 housing: 582 mm x 490 mm x 224 mm
Note	* see nameplate: 2021 alternative, processor cannot be selected

Data for application in connection with hazardous areas

EU-type examination certificate	BVS 17 ATEX E 037 X
---------------------------------	---------------------

Technical Data

Marking		II 3G Ex ec [ib] q IIC T4 IP66 Gc II 3D Ex tc [ib] IIIC T85 °C IP66 Dc
Directive conformity		
Directive 2014/34/EU		EN 60079-0:2012+A11:2013, EN 60079-7:2015, EN 60079-11:2012, EN 60079-31:2014
International approvals		
IECEx approval		IECEx BVS 17.0029X
Approved for		Ex ec [ib] q IIC T4 IP66 Gc Ex tc [ib] IIIC T85 °C IP66 Dc
Standards		IEC 60079-0:2011, IEC 60079-7:2015, IEC 60079-11:2011, IEC 60079-31:2013

Type Code

RM-GXP 19 inches

RM-GXP	(1)	(2)	(3)	(4)-	(5)-	(6)	(7)	(8)	(9)-	(10)-	(11)
Model											
RM-GXP	VisuNet GXP Remote Monitor System										
(1)	Zone										
1100-	Zone 1/21										
1200-	Zone 2/22										
(2)	Display Unit										
19S	19 inches, SXGA (1280x1024)										
(3)	Front Glass & Touch										
N	Anti-glare security glass, no touch										
C	Anti-glare security glass, projective capacitive 10-finger multitouch										
(4)-	Interfaces										
1-	5 x capacitive system front keys										
2-	5 x capacitive system front keys and Bluetooth® interface										
(5)-	Power Supply Unit										
D-	18 ... 36 V DC										
A-	115/230 V AC, 50/60 Hz										
(6)	Interfaces										
E	1 x 1000BASE-T LAN Ex e, 1x USB Ex e, 2x USB Ex i										
S	1 x 1000BASE-SX fiber optic (Multimode), 1x USB Ex e, 2x USB Ex i										
L	1 x 1000BASE-LX fiber optic (Single mode), 1x USB Ex e, 2x USB Ex i										
(7)	Module A										
N	No additional interface module										
1	1 x RS-232 Ex e										
2	1 x RS-485 Ex e										
3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D*, IDM-Z1-164-D* and base station IDMx61-B*, IDM-Z1-x61-B* and IDM-Z1-x64-B*										
4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D* and IDM-Z1-264-D*										
5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals										
E	1 x 1000BASE-T LAN Ex e										
(8)	Module B										
N	No additional interface module										
1	1 x RS-232 Ex e										
2	1 x RS-485 Ex e										
3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D*, IDM-Z1-164-D* and base station IDMx61-B*, IDM-Z1-x61-B* and IDM-Z1-x64-B*										
4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D* and IDM-Z1-264-D*										
5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals										
E	1 x 1000BASE-T LAN Ex e										
(9)	Computing Platform										
T4-	Intel® Atom Elkhart Lake x6211E, 4-GB RAM, 64-GB SSD, VisuNet RM Shell 6.x (based on Windows® IoT LTSC 2021)										
TJ-	Intel® Atom Elkhart Lake x6211E, 4-GB RAM, 64-GB SSD, IGEL OS 12 (based on Linux)										
TI-	Intel® Atom Elkhart Lake x6211E, 4-GB RAM, 64-GB SSD, IGEL OS 11 (based on Linux)										

Type Code

(10)-	Housing
NN-	No bezel, prepared for flush mounting
S2-	Bezel; prepared for panel mounting or into AG1 housing
H2-	Installed into EX1 AG1 housing (SS304), front opening, for pedestal/ceiling/wall-arm

(11)	Options
N0	Standard, no options

Example:

RM-GXP	1100-	19S	N	1-	D-	E	N	N	T4-	S2-	N0
--------	-------	-----	---	----	----	---	---	---	-----	-----	----



Operator Workstation (RM)

VisuNet GXP Remote Monitor (RM)

Zone 1/21 (2024 Generation)

RM-GXP1100-22F-*-T4*

- 21.5" (54.61 cm) display
- 16:9 aspect ratio widescreen formatting to match engineering stations
- Thin Client solution (with VisuNet RM Shell firmware)
- Lightweight design
- Full HD Resolution
- Completely modular system for easy field maintainability
- Flush or bezel mounting options
- IP66 rating for each individual component and entire system with housing
- Certified for ATEX and IECEx Zone 1/21

VisuNet GXP Remote Monitor Zone 1/21 (2024 Generation, Intel® Atom Elkhart Lake Processor)



Function

The VisuNet GXP Remote Monitor (RM-GXP1100- 22F*/RM-GXP1200-22F*) is a lightweight modular operator workstation for use in explosion-hazardous areas according to ATEX and IECEx Zone 1/21.

The system assembly consists of three core components that are fieldreplaceable by the customer.

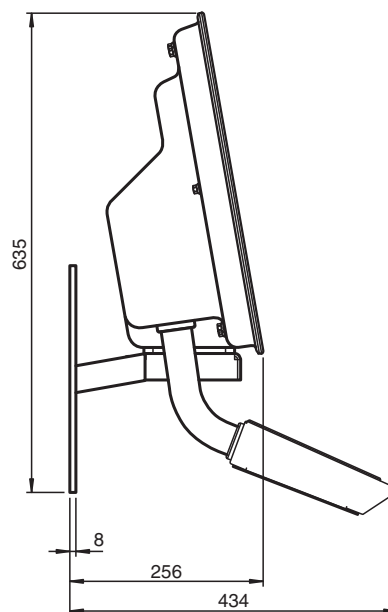
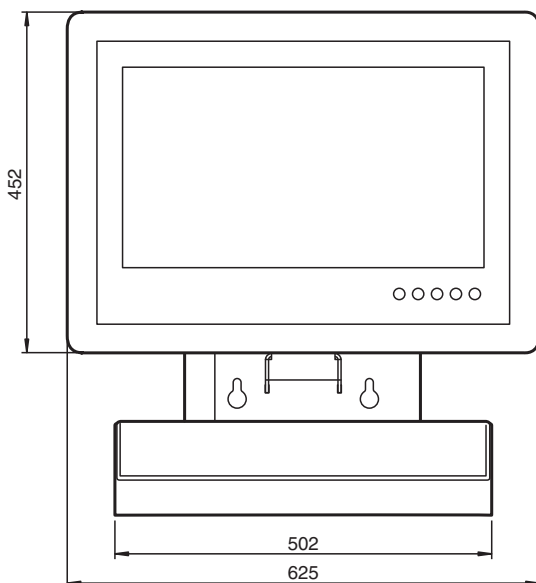
The display unit (DPU1100-*/DPU1200- *) is a hazardous-location rated display panel with an optional 10 finger multitouch sensor. The display and touchsensor are optically bonded with the hardened front glass.

The thin client unit (TCU1100-*/ TCU1200-*) is a hazardous-location rated computing unit that runs the latest Pepperl+Fuchs RM Shell firmware. The TCU allows connection to various host systems in the safe area, using standard Ethernet technology.

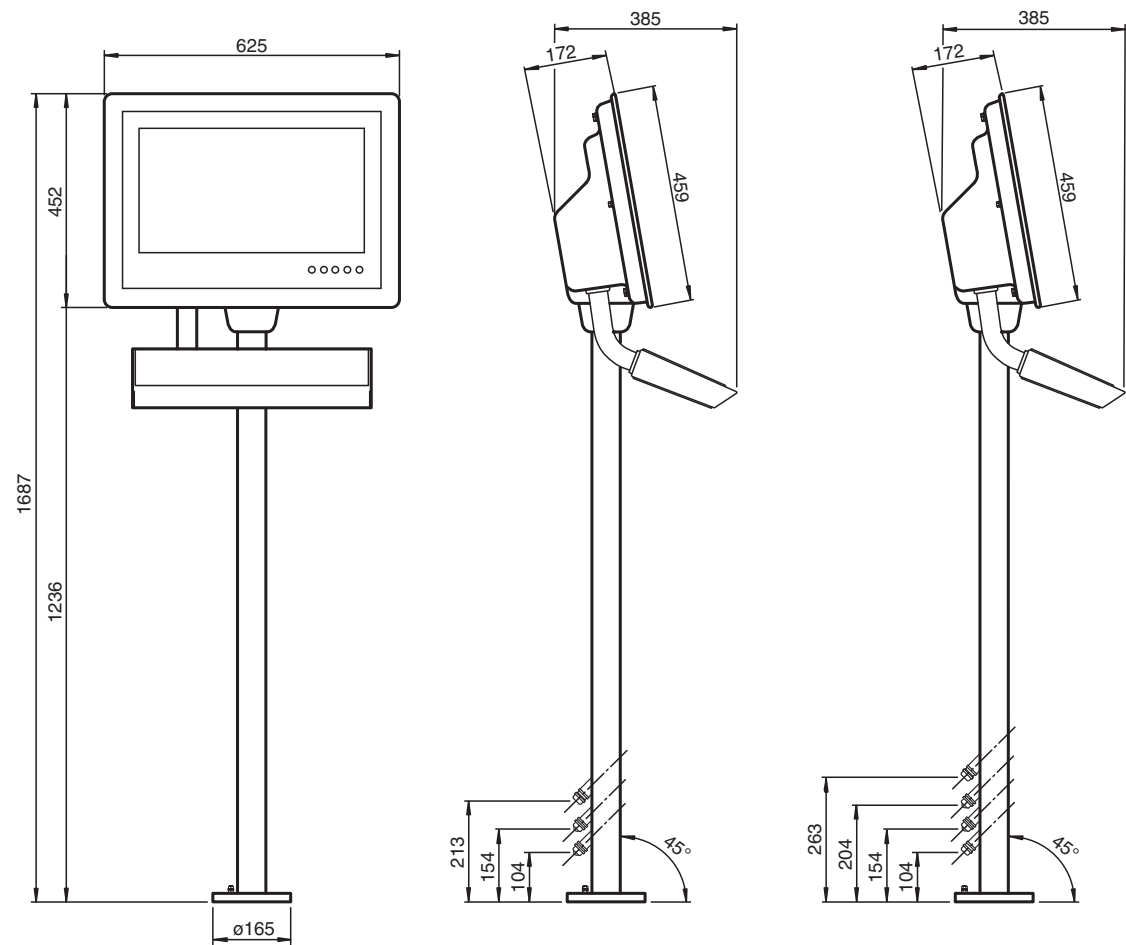
The power supply units (PSU1100-*/ PSU1200-*) are hazardous-location rated power supplies, providing the TCU and DPU devices with 24 V DC power.

As a standard mounting option, a bezel is available that allows the panel to be mounted into the system housing or into a cabinet (requires mounting kit). The panel can also be flush-mounted into a cabinet from the back with additional mounting brackets.

Dimensions



Dimensions



Technical Data

General specifications		
Type	Remote Monitor	
Hardware		
Processor	Intel® Atom Elkhart Lake x6211E	
RAM		4 GB
Mass storage	64 GByte eMMC	
Supply		
Power consumption		
AC		115/230 V AC, 0.4 ... 0.7 A, 50/60 Hz
DC	18 ... 36 V DC , 1.5 ... 3 A	
Indicators/operating means		
Display		
Type		Liquid Crystal Display (LCD) with LED backlight
Screen diagonal	54.61 cm (21.5 inch)	
Resolution		1920 x 1080 pixels (Full HD) Aspect ratio 16:9
Color depth	24 bit (16.7 M) color	
Contrast		5000:1 (typically)
Brightness	300 cd/m² (nit)	
Reading angle		175° in all directions
Life span	back lamp life: 50.000 hrs typical half life , at 25 °C (77 °F)	
Input devices		
Touch screen	optional: projective capacitive; 10 finger multi-touch, glove friendly	

Technical Data

Keyboard	Foil keyboard with different pointing device options available (see EXTA4 datasheet)
Interface	
Interface type	Standard: 1 x Ethernet 100/1000BASE-TX (Ex e) or 1 x fiber optic 1000BASE-SX (Multimode) or 1 x fiber optic 1000BASE-LX (Singlemode), 1 x USB 2.0 (Ex e; service port), 2 x USB 1.1 (Ex i; intended for Pepperl+Fuchs keyboard and mouse), 1 x DC or AC power in (via power supply unit) Optional: "interface 3": 1 x barcode reader interface for wired 1-D scanners IDM-160-D*, IDM-Z1-160-D-* and IDM-164-D-* and base station IDMX61-B*, IDM-Z1-x61-B* and IDM-Z1-x64-B* (Ex i) "interface 4": 1 x barcode reader interface for wired 2-D scanner IDM-Z1-260-D* and IDM-Z1-264-D* (Ex i) "interface 5": 1 x RS-232 interface with Power Supply for miscellaneous devices and peripherals (Ex i) 1 x RS-232 (Ex e) 1 x RS-485 (Ex e) 1 x Ethernet 100/1000Base-TX (Ex e) Bluetooth v4.0, communication distance up to 30 m in open terrain, transmission power +8 dBm, transmission frequency 2.402 ... 2.48 GHz
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013 (industrial locations) non-Bluetooth products only
Radio and telecommunication terminal equipment	
Directive 2014/53/EU	EN 301 328 V2.1.1 EN 301 489-1 V2.1.1 EN 301 489-17 V3.1.1 Bluetooth products only
RoHS	
Directive 2011/65/EU (RoHS)	EN 50581:2012-09
Software	
Operating system	VisuNet RM Shell 6 (based on Windows® 10 Enterprise LTSC 2021) Optional: TJ-: IGEL OS 12 (based on Linux, pre-installed without licence) TI-: IGEL OS 11 (based on Linux, pre-installed without licence) (pending)
Ambient conditions	
Operating temperature	-20 ... 50 °C (-4 ... 122 °F) Display might react sluggishly below 0 °C
Storage temperature	-20 ... 60 °C (-4 ... 140 °F)
Relative humidity	93% at 40°C, non-condensating, according to EN60068-2-78
Altitude	Operating altitude max. 2000 m
Shock resistance	18 shocks 15 g , 11 ms all axis, IEC 60068-2-27
Vibration resistance	10 ... 150 Hz, +/- 0.075 mm , 1g, 10 cycles per axis according to EN60068-2-6
Mechanical specifications	
Degree of protection	IP66 (individual components and entire system with housing)
Material	Internal: Panel: anodized aluminum (TCU, PCU, PSU), powder coated aluminum (DPU) External: Bezel: stainless steel AISI 304 (1.4301) System housing H4: stainless steel AISI 304 (1.4301), bead blasted, typical surface roughness Ra = 1.6 µm
Installation	Flush-mount installation (requires customized mounting kit) Panel-mount installation into system housing with bezel Panel-mount installation into cabinet with Bezel and standard mounting kit
Mass	Panel (DPU with bezel, TCU, PSU DC): approx. 23 kg Panel (DPU with bezel, TCU, PSU AC): approx. 24 kg System housing (AG-XX00): approx. 11 kg
Dimensions	Panel (DPU with bezel, TCU, PSU DC): 625 mm x 459 mm x 120 mm Panel (DPU with bezel, TCU, PSU AC): 625 mm x 459 mm x 137 mm Panel with system housing: 625 mm x 459 mm x 173 mm Panel cut-out dimensions: 583 mm x 417 mm (installation surface)

Technical Data

Note	* see nameplate: 2021 alternative, processor cannot be selected		
Data for application in connection with hazardous areas			
EU-type examination certificate		BVS 17 ATEX E 036 X	
Marking		Ⓜ II 2G Ex eb q ib [ib] IIC T4 IP66 Gb Ⓜ II 2D Ex tb [ib] IIC T85°C IP66 Db	
Directive conformity			
Directive 2014/34/EU		EN 60079-0:2012+A11:2013, EN 60079-5:2015, EN 60079-7:2015, EN 60079-11:2012, EN 60079-31:2014	
International approvals			
IECEx approval		IECEx BVS 17.0029X	
Approved for		Ex eb q ib [ib] IIC T4 IP66 Gb Ex tb [ib] IIC T85°C IP66 Db	
Standards		IEC 60079-0:2011, IEC 60079-5:2015, IEC 60079-7:2015, IEC 60079-11:2011, IEC 60079-31:2013	

Type Code

RM-GXP 22 inches

RM-GXP	(1)	(2)	(3)	(4)-	(5)-	(6)	(7)	(8)	(9)-	(10)-	(11)
Model											
RM-GXP	VisuNet GXP Remote Monitor System										
(1)	Zone										
1100-	Zone 1/21										
1200-	Zone 2/22										
(2)	Display Unit										
22F	21.5 inches (16:9), Full HD (1920 x 1080 pixel)										
(3)	Front Glass & Touch										
N	Anti-glare security glass, no touch										
C	Anti-glare security glass, projective capacitive 10-finger multitouch										
(4)-	Interfaces										
1-	5 x capacitive system front keys										
2-	5 x capacitive system front keys and Bluetooth® interface										
(5)-	Power Supply Unit										
D-	18 ... 36 V DC										
A-	115/230 V AC, 50/60 Hz										
(6)	Interfaces										
E	1 x 1000BASE-T LAN Ex e, 1x USB Ex e, 2x USB Ex i										
S	1 x 1000BASE-SX fiber optic (Multimode), 1x USB Ex e, 2x USB Ex i										
L	1 x 1000BASE-LX fiber optic (Single mode), 1x USB Ex e, 2x USB Ex i										
(7)	Module A										
N	No additional interface module										
1	1 x RS-232 Ex e										
2	1 x RS-485 Ex e										
3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D*, IDM-Z1-164-D* and base station IDMx61-B*, IDM-Z1-x61-B-* and IDM-Z1-x64-B-*										
4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D* and IDM-Z1-264-D*										
5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals										
E	1 x 1000BASE-T LAN Ex e										
(8)	Module B										
N	No additional interface module										
1	1 x RS-232 Ex e										
2	1 x RS-485 Ex e										
3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D*, IDM-Z1-164-D* and base station IDMx61-B*, IDM-Z1-x61-B-* and IDM-Z1-x64-B-*										
4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D* and IDM-Z1-264-D*										
5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals										
E	1 x 1000BASE-T LAN Ex e										

Type Code

(9)	Computing Platform
T4-	Intel® Atom Elkhart Lake x6211E, 4-GB RAM, 64-GB SSD, VisuNet RM Shell 6.x (based on Windows® IoT LTSC 2021)
TJ-	Intel® Atom Elkhart Lake x6211E, 4-GB RAM, 64-GB SSD, IGEL OS 12 (based on Linux)
TI-	Intel® Atom Elkhart Lake x6211E, 4-GB RAM, 64-GB SSD, IGEL OS 11 (based on Linux)
(10)-	Housing
NN-	No bezel, prepared for flush mounting
S1-	Bezel; prepared for panel mounting or into AG-XX00 housing
H4-	Installed into GXP Housing AG-XX00 (SS304), front opening, surface finish 1.6-µm bead blasted
(11)	Options
N0	Standard, no options

Example:

RM-GXP	1100-	22F	N	1-	D-	E	N	N	T4-	S1-	N0
--------	-------	-----	---	----	----	---	---	---	-----	-----	----



Operator Workstation (RM)

VisuNet GXP Remote Monitor (RM)

Zone 1/21 (2024 Generation)

RM-GXP1100-19S-* -T4*

- 19 in (48 cm) display
- Thin Client solution (with VisuNet RM Shell firmware)
- Lightweight design
- Completely modular system for easy field maintainability
- Flush or bezel mounting options
- IP66 rating for each individual component and entire system with housing
- Certified for ATEX and IECEx Zone 1/21

VisuNet GXP Remote Monitor Zone 1/21 (2024 Generation, Intel® Atom Elkhart Lake Processor)



Function

The VisuNet GXP Remote Monitor (RM-GXP1100- 19S*/RM-GXP1200-19S*) is a lightweight modular operator workstation for use in explosion-hazardous areas according to ATEX and IECEx Zone 1/21.

The system assembly consists of three core components that are fieldreplaceable by the customer.

The display unit (DPU1100-*/DPU1200-*) is a hazardous-location rated display panel with an optional 10 finger multitouch sensor. The display and touchsensor are optically bonded with the hardened front glass.

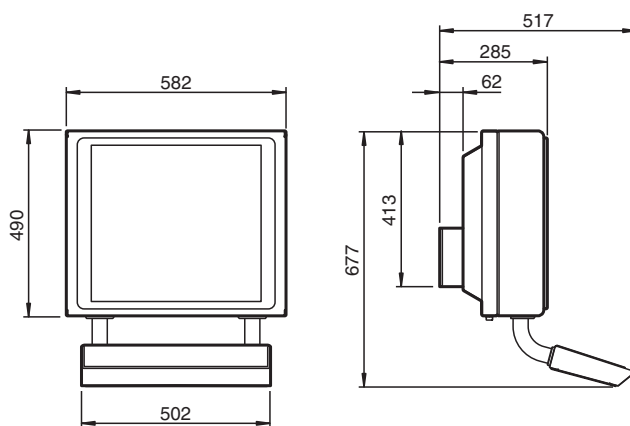
The thin client unit (TCU1100-*/ TCU1200-*) is a hazardous-location rated computing unit that runs the latest Pepperl+Fuchs RM Shell firmware.

The TCU allows connection to various host systems in the safe area, using standard Ethernet technology.

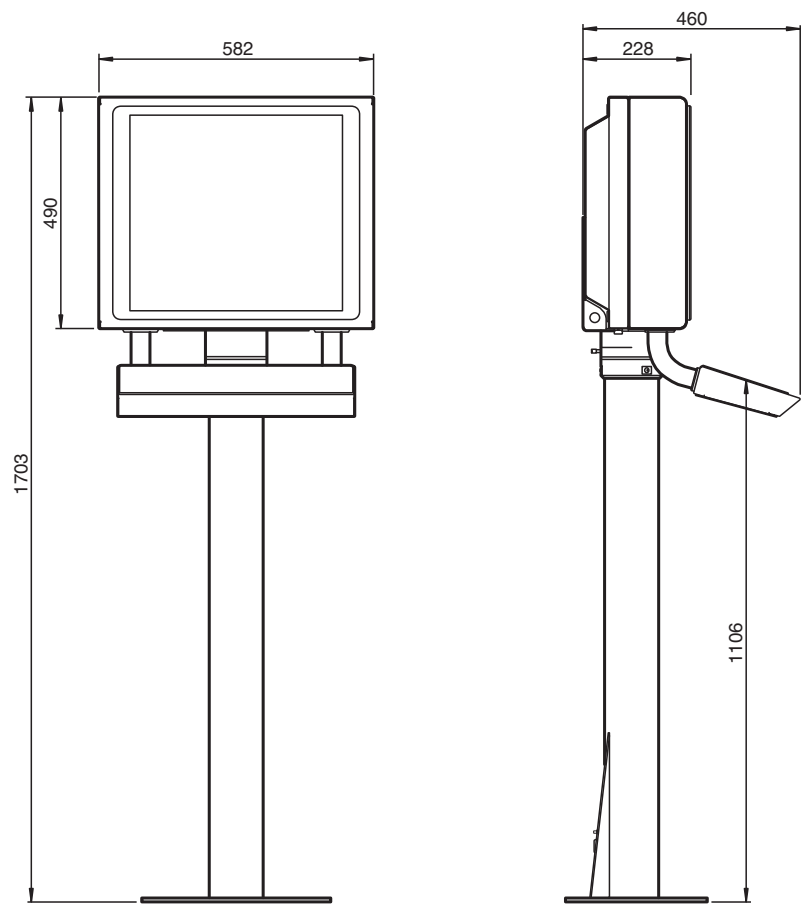
The power supply units (PSU1100-*/ PSU1200-*) are hazardous-location rated power supplies, providing the TCU and DPU devices with 24 V DC power.

As a standard mounting option, a bezel is available that allows the panel to be mounted into the system housing or into a cabinet (requires mounting kit). The panel can also be flush-mounted into a cabinet from the back with additional mounting brackets.

Dimensions



Dimensions



Technical Data

General specifications		
Type	Remote Monitor	
Hardware		
Processor	Intel® Atom Elkhart Lake x6211E	
RAM		4 GB
Mass storage	64 GByte eMMC	
Supply		
Power consumption		
AC		115/230 V AC, 0.4 ... 0.7 A, 50/60 Hz
DC	18 ... 36 V DC , 1.5 ... 3 A	
Indicators/operating means		
Display		
Type		Liquid Crystal Display (LCD) with LED backlight
Screen diagonal	48.26 cm (19 inch)	
Resolution		1280 x 1024 (SXGA) , Aspect ratio 5:4
Color depth	24 bit (16.7 M) color	
Contrast		1000:1
Brightness	450 cd/m² (nit)	
Reading angle		170° horizontal 160° vertical
Life span	back lamp life: 50.000 hrs typical half life , at 25 °C (77 °F)	
Input devices		
Touch screen	optional: projective capacitive; 10 finger multi-touch, glove friendly	
Keyboard	Foil keyboard with different pointing device options available (see EXTA4 datasheet)	

Technical Data

Interface

Interface type	Standard: 1 x Ethernet 100/1000BASE-TX (Ex e) or 1 x fiber optic 1000BASE-SX (Multimode) or 1 x fiber optic 1000BASE-LX (Singlemode), 1 x USB 2.0 (Ex e; service port), 2 x USB 1.1 (Ex i; intended for Pepperl+Fuchs keyboard and mouse), 1 x DC or AC power in (via power supply unit) Optional: "interface 3": 1 x barcode reader interface for wired 1-D scanners IDM-160-D*, IDM-Z1-160-D-* and IDM-164-D-* and base station IDMx61-B-*, IDM-Z1-x61-B-* and IDM-Z1-x64-B-* (Ex i) "interface 4": 1 x barcode reader interface for wired 2-D scanner IDM-Z1-260-D-* and IDM-Z1-264-D-* (Ex i) "interface 5": 1 x RS-232 interface with Power Supply for miscellaneous devices and peripherals (Ex i) 1 x RS-232 (Ex e) 1 x RS-485 (Ex e) 1 x Ethernet 100/1000Base-TX (Ex e) Bluetooth v4.0, communication distance up to 30 m in open terrain, transmission power +8 dBm, transmission frequency 2.402 ... 2.48 GHz
----------------	---

Directive conformity

Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations) non-Bluetooth products only
Radio and telecommunication terminal equipment		
Directive 2014/53/EU		EN 301 328 V2.1.1 EN 301 489-1 V2.1.1 EN 301 489-17 V3.1.1 Bluetooth products only
RoHS		
Directive 2011/65/EU (RoHS)		EN 50581:2012-09

Software

Operating system	VisuNet RM Shell 6 (based on Windows® 10 Enterprise LTSC 2021) Optional: TJ-: IGEL OS 12 (based on Linux, pre-installed without licence) TI-: IGEL OS 11 (based on Linux, pre-installed without licence) (pending)
------------------	---

Ambient conditions

Operating temperature	-20 ... 50 °C (-4 ... 122 °F)
Storage temperature	-20 ... 60 °C (-4 ... 140 °F)
Relative humidity	93% at 40°C, non-condensating, according to EN60068-2-78
Altitude	Operating altitude max. 2000 m
Shock resistance	18 shocks 15 g , 11 ms all axis, IEC 60068-2-27
Vibration resistance	10 ... 150 Hz, +/- 0.075 mm , 1g, 10 cycles per axis according to EN60068-2-6

Mechanical specifications

Degree of protection	IP66 (individual components and entire system with housing)
Material	Internal: Panel: anodized aluminum (TCU, PSU), powder coated aluminum (DPU) External: Bezel: stainless steel AISI 304 (1.4301) System housing: stainless steel AISI 304 (1.4301), bead blasted, typical surface roughness Ra = 1.6 µm
Installation	Flush-mount installation (requires customized mounting kit) Panel-mount installation into system housing with bezel Panel-mount installation into cabinet with Bezel and standard mounting kit
Mass	panel with DC: 22 kg , panel with AC: 23 kg , system housing AG1: 19 kg
Dimensions	panel with DC: 524 mm x 453 mm x 120 mm panel with AC: 524 mm x 453 mm x 137 mm panel with AG1 housing: 582 mm x 490 mm x 224 mm
Note	* see nameplate: 2021 alternative, processor cannot be selected

Data for application in connection with hazardous areas

EU-type examination certificate	BVS 17 ATEX E 036 X
---------------------------------	---------------------

Technical Data

Marking		II 2G Ex eb q ib [ib] IIC T4 IP66 Gb II 2D Ex tb [ib] IIIC T85°C IP66 Db
Directive conformity		
Directive 2014/34/EU		EN 60079-0:2012+A11:2013, EN 60079-5:2015, EN 60079-7:2015, EN 60079-11:2012, EN 60079-31:2014
International approvals		
IECEx approval		IECEx BVS 17.0029X
Approved for		Ex eb q ib [ib] IIC T4 IP66 Gb Ex tb [ib] IIIC T85°C IP66 Db
Standards		IEC 60079-0:2011, IEC 60079-5:2015, IEC 60079-7:2015, IEC 60079-11:2011, IEC 60079-31:2013

Type Code

RM-GXP 19 inches

RM-GXP	(1)	(2)	(3)	(4)-	(5)-	(6)	(7)	(8)	(9)-	(10)-	(11)
--------	-----	-----	-----	------	------	-----	-----	-----	------	-------	------

Model

RM-GXP	VisuNet GXP Remote Monitor System
--------	-----------------------------------

(1) Zone

1100-	Zone 1/21
1200-	Zone 2/22

(2) Display Unit

19S	19 inches, SXGA (1280x1024)
-----	-----------------------------

(3) Front Glass & Touch

N	Anti-glare security glass, no touch
C	Anti-glare security glass, projective capacitive 10-finger multitouch

(4)- Interfaces

1-	5 x capacitive system front keys
2-	5 x capacitive system front keys and Bluetooth® interface

(5)- Power Supply Unit

D-	18 ... 36 V DC
A-	115/230 V AC, 50/60 Hz

(6) Interfaces

E	1 x 1000BASE-T LAN Ex e, 1x USB Ex e, 2x USB Ex i
S	1 x 1000BASE-SX fiber optic (Multimode), 1x USB Ex e, 2x USB Ex i
L	1 x 1000BASE-LX fiber optic (Single mode), 1x USB Ex e, 2x USB Ex i

(7) Module A

N	No additional interface module
1	1 x RS-232 Ex e
2	1 x RS-485 Ex e
3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D*, IDM-Z1-164-D* and base station IDMx61-B*, IDM-Z1-x61-B* and IDM-Z1-x64-B*
4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D* and IDM-Z1-264-D*
5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals
E	1 x 1000BASE-T LAN Ex e

(8) Module B

N	No additional interface module
1	1 x RS-232 Ex e
2	1 x RS-485 Ex e
3	1 x Ex i interface for wired 1-D barcode readers IDM-160-D*, IDM-Z1-160-D*, IDM-Z1-164-D* and base station IDMx61-B*, IDM-Z1-x61-B* and IDM-Z1-x64-B*
4	1 x Ex i interface for 2-D barcode readers IDM-Z1-260-D* and IDM-Z1-264-D*
5	1 x RS-232 Ex i interface for miscellaneous devices and peripherals
E	1 x 1000BASE-T LAN Ex e

(9) Computing Platform

T4-	Intel® Atom Elkhart Lake x6211E, 4-GB RAM, 64-GB SSD, VisuNet RM Shell 6.x (based on Windows® IoT LTSC 2021)
TJ-	Intel® Atom Elkhart Lake x6211E, 4-GB RAM, 64-GB SSD, IGEL OS 12 (based on Linux)

Type Code

(9)	Computing Platform
TI-	Intel® Atom Elkhart Lake x6211E, 4-GB RAM, 64-GB SSD, IGEL OS 11 (based on Linux)
(10)-	Housing
NN-	No bezel, prepared for flush mounting
S2-	Bezel; prepared for panel mounting or into AG1 housing
H2-	Installed into EX1 AG1 housing (SS304), front opening, for pedestal/ceiling/wall-arm
(11)	Options
N0	Standard, no options

Example:

RM-GXP	1100-	19S	N	1-	D-	E	N	N	T4-	S2-	N0
--------	-------	-----	---	----	----	---	---	---	-----	-----	----

По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижегород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(727) 345-47-04

Беларусь +(375) 257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: phb@nt-rt.ru || сайт: <https://pepperl-fuchs.nt-rt.ru/>