

Промышленные мониторы VisuNet FLX Edge

Технические характеристики

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VisuNet FLX Edge Workstation

**** -EDGE- * - * - ***

- Class I, Division 1 solution with integrated 6000 Series Type X Purge & Pressurization system
- Class I, II, Division 2 and General Purpose solution without Purge & Pressurization system
- Fully modular design using VisuNet FLX HMI and EXT44 keyboard options support field maintainability
- Available as Windows® PC or Thin Client with RM Shell, ThinManager Ready, or IGEL OS
- Watershed housing allows for proper drainage in outdoor or washdown environments
- Pedestal or wall mount option

VisuNet FLX Edge Workstation

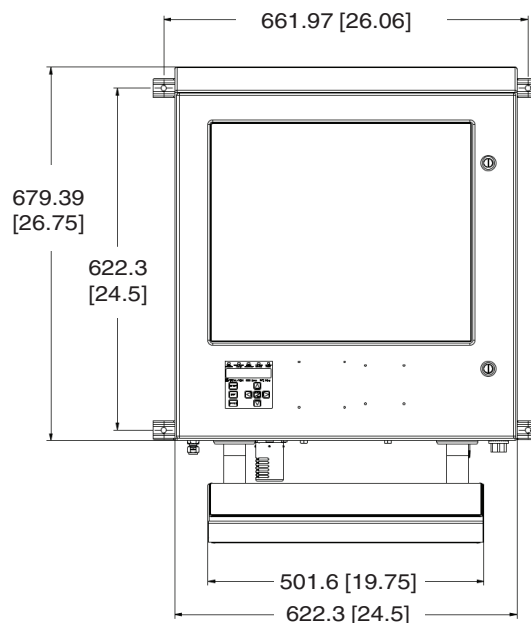


Function

The VisuNet FLX Edge is a universal design that is well suited for many applications within the Process Automation industry. Specifically designed for manufacturing environments where dust, bacteria, water, and other undesirable materials might accumulate, the sloped enclosure provides washdown solutions with proper drainage to prevent accumulation of standing water. The formed lip enclosure opening prevents the flow of liquid or other contaminants from entering the enclosure. The watershed enclosure with optional extended keyboard housing is available with an integrated 6000 Series Type X Purge & Pressurization system that meets requirements for Division 1 hazardous location installations. Configurable options for display size, function, and mounting allow the unit to be uniquely tailored to the specific application within the plant.

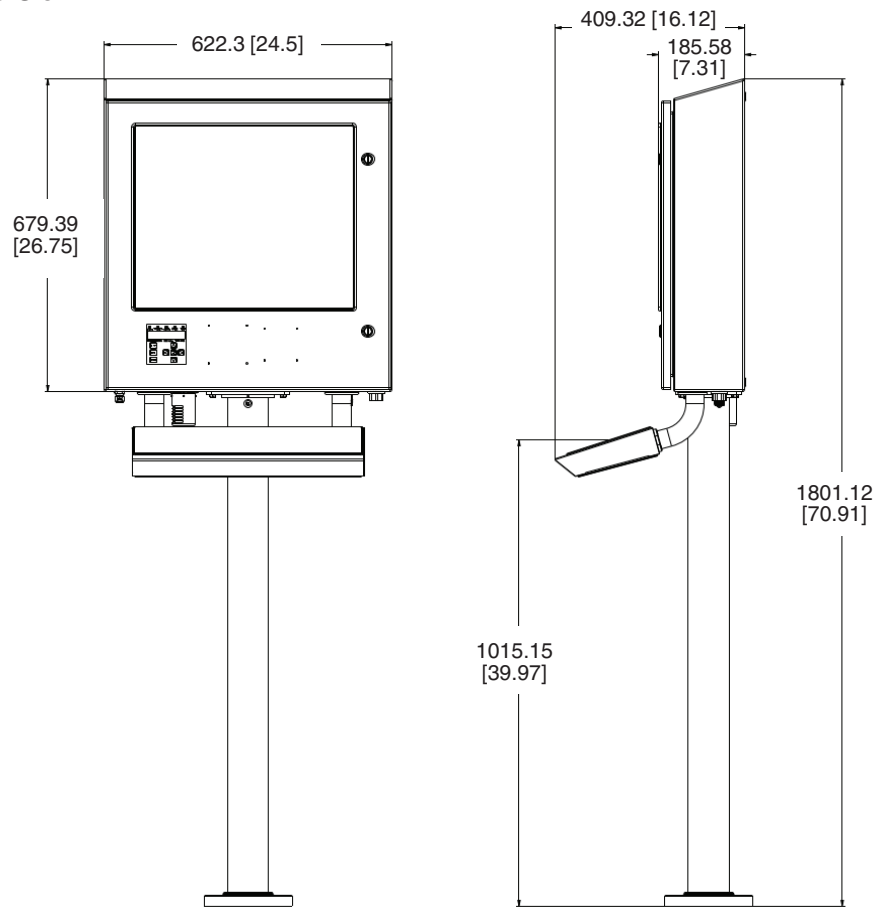
Dimensions

19" wall-mount version:

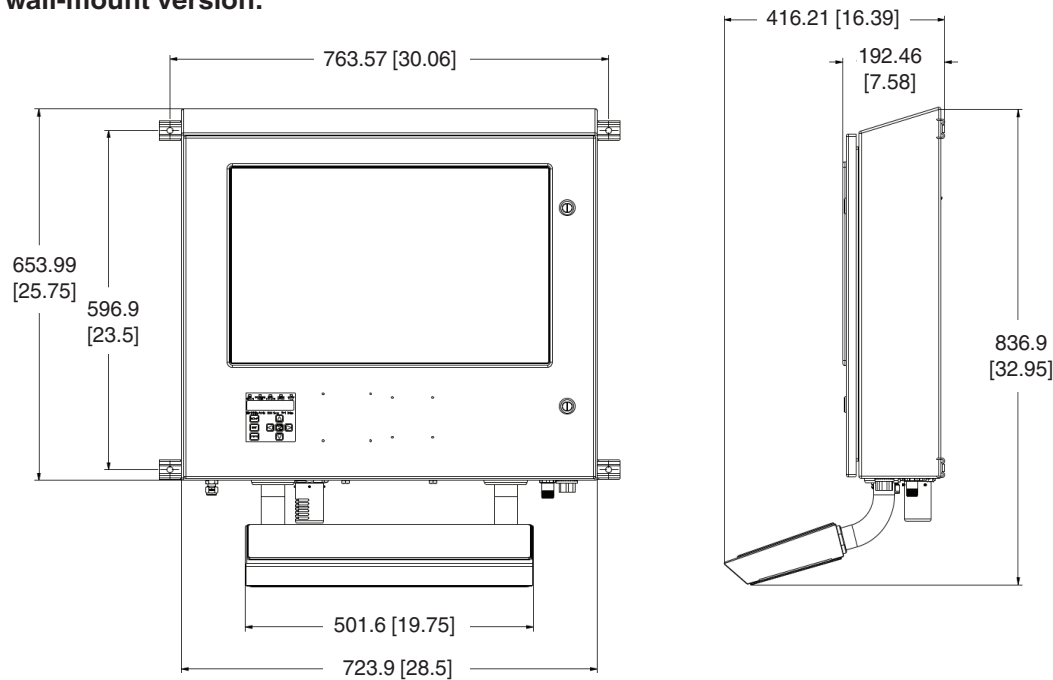


Dimensions

19" pedestal version:

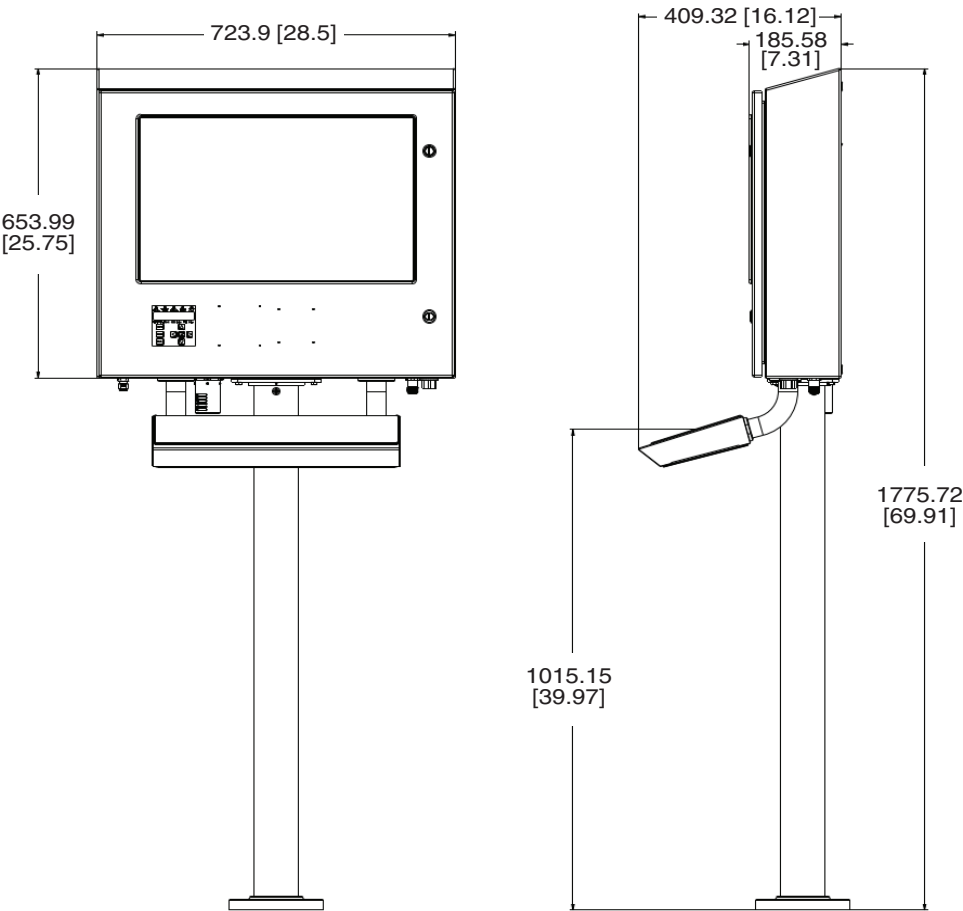


21.5" wall-mount version:



Dimensions

21.5" pedestal version:



Technical Data

Hardware		
Processor		Intel® Core™ i5-7300U Intel® Celeron™ 3965U
RAM		1x8 GB DDR4 (Thin Client or PC) 1x16 GB DDR4 (PC)
Mass storage		64 GB M.2 SATA III (Thin Client) 256 GB M.2 NVMe (PC) 512 GB M.2 NVMe (PC)
Supply		
Connection		Terminals
Power consumption		100 ... 240 VAC, 50 ... 60 Hz 20 ... 30 VDC
Indicators/operating means		
Display		
Type		Liquid Crystal Display (LCD) with LED backlight
Screen diagonal		22FC: 54.61 cm (21.5") 19SC: 48.26 cm (19")
Resolution		22FC: 1920 x 1080 pixels (Full HD) Aspect Ratio (16:9) 19SC: 1820 x 1024 pixels (SXGA) Aspect Ratio (5:4)
Color depth		24 bit (16.7 M) color
Contrast		Typically 22FC: 5000:1 19SC: 1000:1
Brightness		Configurable display options: 22FC: 300 cd/m ² 19SC: 450 cd/m ²

Technical Data

Reading angle	22FC, 19SC: horizontal: 170°; vertical: 160°
Life span	Back lamp life (22FC, 19SC): 50,000 hrs typical half life, at 25 °C (77 °F)
Input devices	
Touch screen	Display Options: 10-finger multi-touch, glove friendly 22FC, 19SC: Capacitive touch, optical bonding
Keyboard	Optional: Foil keyboard with different pointing device options available (See EXTA4 datasheet.)
Interface	
Interface type	1 x DisplayPort 1.2 (DP++) 1 x mini DisplayPort 1.2 (DP++ w/ mono locking screw) 1 x Audio Line-out 2 x USB Ex i ports prepared for Pepperl+Fuchs intrinsically safe keyboard 2 x USB 3.1 Gen1 (5 Gbps) ports 1 x USB 2.0 port 2 x LAN ports (RJ45, 10/100/1000 Mbps) 2 x RS232/422/485 (BIOS configurable) with 5V/12V to power peripherals (1 x DB9 male + 1 x RJ45)
Software	
Operating system	PC: Microsoft® Windows® 10 IoT Enterprise 2021 LTSC (x64) Thin Client: Pepperl+Fuchs RM Shell 6 (based on Microsoft® Windows® 10 IoT Enterprise 2021 LTSC (x64), ThinManager Ready or IGEL OS
Ambient conditions	
Ambient temperature	-20 ... 50 °C (-4 ... 122 °F)
Storage temperature	-20 ... 65 °C (-4 ... 149 °F)
Relative humidity	max. relative humidity 93% at 40°C (non-condensing) according to EN60068-2-78
Mechanical specifications	
Degree of protection	Type 4X
Material	
Housing	304 (UNS S30400) stainless steel
Surface	Ra (max) = 64 µin
Mass	approx. 52.16 kg (115 lbs) Empty housing ; Varies with configuration
Dimensions	19" pedestal: 24.5" W. x 15.25" D x 70.5" H 19" wall-mount: 24.5" W x 15.25" D x 34" H 22" pedestal: 28.5" W x 15.25" D x 70.5" H 22" wall-mount: 28.5" W x 15.25" D x 35" H
Mounting	Wall or pedestal mount
International approvals	
ETL approval	cETLus: 5003368
Approved for	Class I, Division 1, Groups A, B, C, D with 6000 Series Type X Purge Class I, II, Division 2, Groups A, B, C, D, F, and G without 6000 Series Type X Purge

Technical Features

Purge Data	
General specifications	
Series	6000
Indicators/settings	
LED indicator	Safe pressure: Blue (safe pressure is achieved) Enclosure power: Green (power on); Red (power off) Rapid exchange: Blue (purging is running) System bypass: Yellow (bypass is achieved) Alarm fault: Blinking Red (any alarm input detected) Solid Red (6000 series system fault)
Pneumatic parameters	
Protective gas supply	Instrument grade air or inert gas
Pressure requirement	20 ... 120 psig (1.4 ... 8.3 bar) (138 ... 827 kPa) regulated
Safe Pressure	Gas: 0.25" wc (6.4 mm wc) (0.625 mbar) (62 Pa)
Purge flow and enclosure pressure rate	5 SCFM @ 1.3" wc (141 l/min @ 33 mm wc) (3.3 mbar) (324 Pa) 12 SCFM @ 2.5" wc (340 l/min @ 64 mm wc) (6.3 mbar) (623 Pa)
Flow rate for leakage compensation	0.01 SCFM (0.30 l/min) @ 0.25" 0.2 SCFM (5.6 l/min) @ 0.75" and up (depends on enclosure seal)
Purge time (4 volume exchange)	min = 2.00 min max = 2.60 min

Technical Features

Mechanical specifications

Connection type	Pneumatic: Inlet fitting to manifold: 3/8" NPT (female) Outlet fitting from manifold: 3/8" bulkhead fitting (provided)
Note	For complete specifications of the purge system, see the datasheet for the 6000 Control System Type X & Ex px purge and pressurization system.

Type Code

Structure of the type code

(1) (2)	-	(3) (4)	-	(5) (6) (7) (8)	-	(9) (10) (11) (12)	-	(13)
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1	Model
RM-EDGE	Remote Monitor Edge Solution
PC-EDGE	PC Edge Solution

2	Area Classification
0	General Purpose / Non-Hazardous
1	Class I, Division 1 (Includes 6000 Purge & Pressurization System)
2	Class I/II, Division 2

3	Display Unit
22FC	21.5" (16:9), Full HD (1920x1080 pixel), Capacitive Touch w/ Optical Bonding
19SC	19" SXGA, (1280x1024 pixel), Capacitive Touch w/ Optical Bonding

4	Power Supply
A	115/230 V AC, 50-60 Hz
D	24 V DC (+/- 20%)

5	Computing Platform
1N	Intel Celeron 3965U (PC or Thin Client)
2N	Intel Core i5-7300U (PC)

6	RAM
L	1x8 GB DDR4 (Thin Client or PC)
M	1x16 GB DDR4 (PC)

7	Storage
N	None (ThinManager Ready Option Only)
L	64 GB M.2 SATA III (Thin Client)
P	256 GB M.2 NVMe (PC)
Q	512 GB M.2 NVMe (PC)

8	Operating System & Software
3	Windows 10 IoT Enterprise 2021 x64 LTSC (PC)
4	RM Shell 6.x (based on Win 10 IoT LTSC) (Thin Client)
T	ThinManager Ready (Thin Client)
I	Linux IGEL OS 11
J	Linux IGEL OS 12

9	Mounting / Housing Option
F	Pedestal Mount Fixed (Pedestal Included)
T	Pedestal Mount Turnable (Pedestal Included)
W	Wall Mount

10	Keyboard Option
N	No Keyboard, No Mouse
C	Keyboard & Mouse Included

11	Keyboard / Mouse Version
K0	No Keyboard, No Mouse
K4	Capacitive Touchpad
K6	Joystick
K8	Optical Trackball

12	Keyboard Language
L0	No Keyboard, No Layout
US	US-International Layout (QWERTY)

Type Code	
13	Keyboard Options
N0	Standard, No options
UV	UV-resistant front foil for outdoor use

Example: RM-EDGE1-22FCA-1NML4-TCK4US-N0

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