

Гарнитур

Технические характеристики

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Headset

LiteCom PRO III Ex Helmet 403-470 MHz



- Programmable analog/digital DMR two-way radio communication
- Bluetooth® multipoint functionality
- Water tight microphone (IP68)
- Environmental listening with level-dependent hearing protection
- Voice menu with multiple language selection
- Push-to-Listen function
- Rechargeable Li-Ion battery and battery status indication
- Voice operated transmission (VOX)
- Busy channel indication
- Auto power off function
- ATEX and IECEx approvals

3M™ PELTOR™ WS™ LiteCom Pro III Ex Headset, 403-470 MHz, Analog/Digital, Ex, EU version, Helmet



Function

The 3M™ PELTOR™ WS™ LiteCom Pro III Ex Headset is the next generation protective communication solution. With an integrated, programmable analog/digital two-way radio, Bluetooth® Multipoint connectivity, noise-cancelling speech microphone, and level-dependent function for ambient listening, the 3M™ WS™ LiteCom Pro III Ex Headset not only helps protect you against potentially hazardous noise, but also makes it easy to communicate in noisy environments and helps you maintain situational awareness.

Technical Data

General specifications

Description	Helmet Mount
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Hardware

Microphone	Dynamic (MT73)
Two-way radio	
Frequency range	403 ... 470 MHz
Operating mode	Simplex
Channels	70 programmable channels
Channel grid	12,5 kHz and 25 kHz
Modulation	Analog: 2,5 kHz (FM) and 5 kHz (FM) Digital: 2,5 kHz (4-level FSK)
Sensitivity (Receiver)	Typical -120 dBm
Selective squelch	Programmable (supports CTCSS and DCS)
Power Output	200 / 20 / 10 mW ER
Detection range	Outdoors up to 2 km depending on conditions

Electrical specifications

Battery type	Li-ion 3.7 V , 1350 mAh , 5 Wh
Charging time	approx. 12 h
Operating duration	8 h * (90 stby / 5 tx / 5 rx) * can be increased up to 12 hours with the power save feature

Ambient conditions

Operating temperature	-20 ... 50 °C (-4 ... 122 °F)
Storage temperature	-20 ... 55 °C (-4 ... 131 °F) < 90 % Humidity

Mechanical specifications

Mass	512 g
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Technical Data

Data for application in connection with hazardous areas

ATEX approval	
ATEX certificate	Presafe 16ATEX8960X
ATEX marking	I M1 Ex ia I Ma -20°C ≤ Ta: ≤ +50°C II 1G Ex ia IIC T4 Ga -20°C ≤ Ta ≤ +50°C Ga II 1D Ex ia IIC T130°C Da -20°C ≤ Ta ≤ +50°C

International approvals

IECEx approval	
IECEx certificate	Presafe 16.0086X
IECEx marking	Ex ia I Ma -20°C ≤ Ta: ≤ +50°C Ex ia IIC T4 Ga -20°C ≤ Ta ≤ +50°C Ex ia IIC T130°C Da -20°C ≤ Ta ≤ +50°C

General information

Scope of delivery	3M™ PELTOR™ WS™ LiteCom Pro III Ex headset. Battery ACK082 Power supply FR08 Cable AL2AH (for ACK082) Hygiene kit HY83 Documentation
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Accessories

	MT73/1	Boom arm microphone with dynamic microphone capsule, waterproof for 3M™ PELTOR™ LiteCom Pro III Ex headset
	ACK082	Rechargeable lithium-ion battery for 3M™ PELTOR™ LiteCom Pro III Ex headset
	AL2AH	Battery charging cable for ACK081 battery pack
	FL5602-50	External PTT for WS™ LiteCom Pro III Ex Headset, ATEX
	FR08	Power plug with USB charging port for 3M™ PELTOR™ LiteCom Pro III Ex headset
	HY83	Ear cushions for 3M™ PELTOR™ LiteCom Pro III Ex headset
	HY100A	Sweat absorber for 3M™ PELTOR™ LiteCom Pro III Ex headset
	HYM1000	Microphone protection band for 3M™ PELTOR™ LiteCom Pro III Ex headset
	M40/1	Windscreen for 3M™ PELTOR™ LiteCom Pro III Ex headset
	M60/2	Windscreen for 3M™ PELTOR™ LiteCom Pro III Ex headset
	M171/2	Windscreen for 3M™ PELTOR™ LiteCom Pro III Ex headset



Headset



LiteCom PRO III Ex Headband 403-470 MHz

- Programmable analog/digital DMR two-way radio communication
- Bluetooth® multipoint functionality
- Water tight microphone (IP68)
- Environmental listening with level-dependent hearing protection
- Voice menu with multiple language selection
- Push-to-Listen function
- Rechargeable Li-Ion battery and battery status indication
- Voice operated transmission (VOX)
- Busy channel indication
- Auto power off function
- ATEX and IECEx approvals

3M™ PELTOR™ WS™ LiteCom Pro III Ex Headset, 403-470 MHz, Analog/Digital, Ex, EU version, Headband



Function

The 3M™ PELTOR™ WS™ LiteCom Pro III Ex Headset is the next generation protective communication solution. With an integrated, programmable analog/digital two-way radio, Bluetooth® Multipoint connectivity, noise-cancelling speech microphone, and level-dependent function for ambient listening, the 3M™ WS™ LiteCom Pro III Ex Headset not only helps protect you against potentially hazardous noise, but also makes it easy to communicate in noisy environments and helps you maintain situational awareness.

Technical Data

General specifications

Description	Headband
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Hardware

Microphone	Dynamic (MT73)
Two-way radio	
Frequency range	403 ... 470 MHz
Operating mode	Simplex
Channels	70 programmable channels
Channel grid	12,5 kHz and 25 kHz
Modulation	Analog: 2,5 kHz (FM) and 5 kHz (FM) Digital: 2,5 kHz (4-level FSK)
Sensitivity (Receiver)	Typical -120 dBm
Selective squelch	Programmable (supports CTCSS and DCS)
Power Output	200 / 20 / 10 mW ER
Detection range	Outdoors up to 2 km depending on conditions

Electrical specifications

Battery type	Li-ion 3.7 V , 1350 mAh , 5 Wh
Charging time	approx. 12 h
Operating duration	8 h * (90 stby / 5 tx / 5 rx) * can be increased up to 12 hours with the power save feature

Ambient conditions

Operating temperature	-20 ... 50 °C (-4 ... 122 °F)
Storage temperature	-20 ... 55 °C (-4 ... 131 °F) < 90 % Humidity

Mechanical specifications

Mass	521 g
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Technical Data

Data for application in connection with hazardous areas

ATEX approval		
ATEX certificate		Presafe 16ATEX8960X
ATEX marking		I M1 Ex ia I Ma -20°C ≤ Ta: ≤ +50°C II 1G Ex ia IIC T4 Ga -20°C ≤ Ta ≤ +50°C Ga II 1D Ex ia IIIC T130°C Da -20°C ≤ Ta ≤ +50°C

International approvals

IECEx approval		
IECEx certificate		Presafe 16.0086X
IECEx marking		Ex ia I Ma -20°C ≤ Ta: ≤ +50°C Ex ia IIC T4 Ga -20°C ≤ Ta ≤ +50°C Ex ia IIIC T130°C Da -20°C ≤ Ta ≤ +50°C

General information

Scope of delivery		3M™ PELTOR™ WS™ LiteCom Pro III Ex headset. Battery ACK082 Power supply FR08 Cable AL2AH (for ACK082) Hygiene kit HY83 Documentation
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Accessories

	MT73/1	Boom arm microphone with dynamic microphone capsule, waterproof for 3M™ PELTOR™ LiteCom Pro III Ex headset
	ACK082	Rechargeable lithium-ion battery for 3M™ PELTOR™ LiteCom Pro III Ex headset
	AL2AH	Battery charging cable for ACK081 battery pack
	FL5602-50	External PTT for WS™ LiteCom Pro III Ex Headset, ATEX
	FR08	Power plug with USB charging port for 3M™ PELTOR™ LiteCom Pro III Ex headset
	HY83	Ear cushions for 3M™ PELTOR™ LiteCom Pro III Ex headset
	HY100A	Sweat absorber for 3M™ PELTOR™ LiteCom Pro III Ex headset
	HYM1000	Microphone protection band for 3M™ PELTOR™ LiteCom Pro III Ex headset
	M40/1	Windscreen for 3M™ PELTOR™ LiteCom Pro III Ex headset
	M60/2	Windscreen for 3M™ PELTOR™ LiteCom Pro III Ex headset
	M171/2	Windscreen for 3M™ PELTOR™ LiteCom Pro III Ex headset



Headset



LiteCom PRO III Ex Neckband 403-470 MHz

- Programmable analog/digital DMR two-way radio communication
- Bluetooth® multipoint functionality
- Water tight microphone (IP68)
- Environmental listening with level-dependent hearing protection
- Voice menu with multiple language selection
- Push-to-Listen function
- Rechargeable Li-Ion battery and battery status indication
- Voice operated transmission (VOX)
- Busy channel indication
- Auto power off function
- ATEX and IECEx approvals

3M™ PELTOR™ WS™ LiteCom Pro III Ex Headset, 403-470 MHz, Analog/Digital, Ex, EU version, Neckband



Function

The 3M™ PELTOR™ WS™ LiteCom Pro III Ex Headset is the next generation protective communication solution. With an integrated, programmable analog/digital two-way radio, Bluetooth® Multipoint connectivity, noise-cancelling speech microphone, and level-dependent function for ambient listening, the 3M™ WS™ LiteCom Pro III Ex Headset not only helps protect you against potentially hazardous noise, but also makes it easy to communicate in noisy environments and helps you maintain situational awareness.

Technical Data

General specifications	
Description	Behind-The-Neck
Hardware	
Microphone	Dynamic (MT73)
Two-way radio	
Frequency range	403 ... 470 MHz
Operating mode	Simplex
Channels	70 programmable channels
Channel grid	12,5 kHz and 25 kHz
Modulation	Analog: 2,5 kHz (FM) and 5 kHz (FM) Digital: 2,5 kHz (4-level FSK)
Sensitivity (Receiver)	Typical -120 dBm
Selective squelch	Programmable (supports CTCSS and DCS)
Power Output	200 / 20 / 10 mW ER
Detection range	Outdoors up to 2 km depending on conditions
Electrical specifications	
Battery type	Li-ion 3.7 V , 1350 mAh , 5 Wh
Charging time	approx. 12 h
Operating duration	8 h * (90 stby / 5 tx / 5 rx) * can be increased up to 12 hours with the power save feature
Ambient conditions	
Operating temperature	-20 ... 50 °C (-4 ... 122 °F)
Storage temperature	-20 ... 55 °C (-4 ... 131 °F) < 90 % Humidity
Mechanical specifications	
Mass	475 g

Technical Data

Data for application in connection with hazardous areas

ATEX approval		
ATEX certificate		Presafe 16ATEX8960X
ATEX marking		I M1 Ex ia I Ma -20°C ≤ Ta: ≤ +50°C II 1G Ex ia IIC T4 Ga -20°C ≤ Ta ≤ +50°C Ga II 1D Ex ia IIIC T130°C Da -20°C ≤ Ta ≤ +50°C

International approvals

IECEX approval		
IECEX certificate		Presafe 16.0086X
IECEX marking		Ex ia I Ma -20°C ≤ Ta: ≤ +50°C Ex ia IIC T4 Ga -20°C ≤ Ta ≤ +50°C Ex ia IIIC T130°C Da -20°C ≤ Ta ≤ +50°C

General information

Scope of delivery		3M™ PELTOR™ WS™ LiteCom Pro III Ex headset. Battery ACK082 Power supply FR08 Cable AL2AH (for ACK082) Hygiene kit HY83 Documentation
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Accessories

	MT73/1	Boom arm microphone with dynamic microphone capsule, waterproof for 3M™ PELTOR™ LiteCom Pro III Ex headset
	ACK082	Rechargeable lithium-ion battery for 3M™ PELTOR™ LiteCom Pro III Ex headset
	AL2AH	Battery charging cable for ACK081 battery pack
	FL5602-50	External PTT for WS™ LiteCom Pro III Ex Headset, ATEX
	FR08	Power plug with USB charging port for 3M™ PELTOR™ LiteCom Pro III Ex headset
	HY83	Ear cushions for 3M™ PELTOR™ LiteCom Pro III Ex headset
	HY100A	Sweat absorber for 3M™ PELTOR™ LiteCom Pro III Ex headset
	HYM1000	Microphone protection band for 3M™ PELTOR™ LiteCom Pro III Ex headset
	M40/1	Windscreen for 3M™ PELTOR™ LiteCom Pro III Ex headset
	M60/2	Windscreen for 3M™ PELTOR™ LiteCom Pro III Ex headset
	M171/2	Windscreen for 3M™ PELTOR™ LiteCom Pro III Ex headset



Headset

SM1P*

- SENS® Technology - remain aware of surrounding noises and hazards
- Clear two-way radio communication in high-noise environments
- Compatible with two-way radios and ecom mobile devices via Bluetooth®
- Bluetooth cellular connection for conversation and audio streaming (HFP, HSP and A2DP profiles)
- Improved Short Range with VOX capabilities and additional channel banks for headset-to-headset communications

SM1P series



Product Photo



Technical Data

General specifications	
Description	Headband or Behind-The-Neck or Helmet Mount
Hardware	
Microphone	Boom microphone noise cancelling
Electrical specifications	
Battery type	Li-ion Rechargeable 2250 mAh
Charging time	4 h
Operating duration	18 h
Communication	
Bluetooth	Bluetooth 3.0 HFP (8 KHz and 16 KHz), HSP, A2DP Range: 15 m
Connections	SENS® 360° Situational Awareness: 95 dB(A) Half-duplex communications, Up to 8 programmable FM channels, Up to 50 meters
Ambient conditions	
Charging temperature	0 ... 40 °C (32 ... 104 °F)
Mechanical specifications	
Degree of protection	IP54

Technical Data

Mass	Headband 495 g Behind-The-Neck 428 g Helmet Mount 480 g	
Data for application in connection with hazardous areas		
ATEX approval		
ATEX certificate		Baseefa18ATEX0049X
ATEX marking		Ⓔ I M2 Ex ib I Mb (-20°C to +60°C) Ⓔ II 2G Ex ib IIC T4 Gb (-20°C to +40°C) Ⓔ II 2D Ex ib IIIC T155°C Db (-20°C to +40°C)
International approvals		
IECEX approval		
IECEX certificate		IECEX BAS 18.0035X
IECEX marking		Ex ib I Mb (-20°C to +60°C) Ex ib IIC T4 Gb (-20°C to +40°C) Ex ib IIIC T155°C Db (-20°C to +40°C)
UKCA approval		
UKCA certificate		BAS23UKEX0020X
UKCA marking		Ⓔ I M2 Ex ib I Mb (-20°C to +60°C) Ⓔ II 2G Ex ib IIC T4 Gb (-20°C to +40°C) Ⓔ II 2D Ex ib IIIC T155°C Db (-20°C to +40°C)
INMETRO approval		
INMETRO certificate		DNV 23.0209 X/00
INMETRO marking		Ex ib I Mb (-20°C to +60°C) Ex ib IIC T4 Gb (-20°C to +40°C) Ex ib IIIC T155°C Db (-20°C to +40°C)
NEC/CEC approval		
NEC/CEC certificate		SGSNA/18/SUW/00190
NEC/CEC marking		Class I, Division 1, Groups A-D T3C (-20°C to +40°C) Class I Zone 0 AEx ia IIC T3 Ga (-20°C to +40°C) Ex ia IIC T3 Ga (-20°C to +40°C)
Approved for	Mining	

Technical Features

Hearing Protection

Volume limiter	82 dB(A) [programmable] - only applicable when the headset is powered on.		
Region	Australia / NZ	USA / Canada	Europe
Standard	AS/NZS 1270	ANSI S3.19	EN352-1/EN352-3
Result	SLC80	NRR	SNR
HB	31 dB, Class 5	27 dB	33 dB
BTN	27 dB, Class 5	24 dB	30 dB
HM	26 dB, Class 5	23 dB	31 dB



Headset

SM1PEWISPF01 NAM

- SENS® Technology - remain aware of surrounding noises and hazards
- Clear two-way radio communication in high-noise environments
- Compatible with two-way radios and ecom mobile devices via Bluetooth®
- Bluetooth cellular connection for conversation and audio streaming (HFP, HSP and A2DP profiles)
- Improved Short Range with VOX capabilities and additional channel banks for headset-to-headset communications

SM1P, Behind-The-Neck, Division 1, with Bluetooth



Technical Data

General specifications

Description	Behind-The-Neck
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Hardware

Microphone	Boom microphone noise cancelling
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Electrical specifications

Battery type	Li-ion Rechargeable 2250 mAh
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Charging time	4 h
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Operating duration	18 h
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Communication

Bluetooth	Bluetooth 3.0 HFP (8 KHz and 16 KHz), HSP, A2DP Range: 15 m
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Connections	SENS® 360° Situational Awareness: 95 dB(A) Half-duplex communications, Up to 8 programmable FM channels, Up to 50 meters
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Ambient conditions

Charging temperature	0 ... 40 °C (32 ... 104 °F)
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Mechanical specifications

Degree of protection	IP54
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Mass	428 g
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International approvals

NEC/CEC approval	
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NEC/CEC certificate	SGSNA/18/SUW/00190
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NEC/CEC marking	Class I, Division 1, Groups A-D T3C (-20°C to +40°C) Class I Zone 0 AEx ia IIC T3 Ga (-20°C to +40°C) Ex ia IIC T3 Ga (-20°C to +40°C)
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Approved for	Mining
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Technical Features

Hearing Protection

Volume limiter	82 dB(A) [programmable] - only applicable when the headset is powered on.		
Region	Australia / NZ	USA / Canada	Europe
Standard	AS/NZS 1270	ANSI S3.19	EN352-1/EN352-3
Result	SLC80	NRR	SNR
HB	31 dB, Class 5	27 dB	33 dB
BTN	27 dB, Class 5	24 dB	30 dB
HM	26 dB, Class 5	23 dB	31 dB



Headset

SM1PBWEXP01 ATEX / INMETRO

- SENS® Technology - remain aware of surrounding noises and hazards
- Clear two-way radio communication in high-noise environments
- Compatible with two-way radios and ecom mobile devices via Bluetooth®
- Bluetooth cellular connection for conversation and audio streaming (HFP, HSP and A2DP profiles)
- Improved Short Range with VOX capabilities and additional channel banks for headset-to-headset communications

SM1P, Headband, Zone 1/21, with Bluetooth



Technical Data

General specifications

Description	Headband
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Hardware

Microphone	Boom microphone noise cancelling
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Electrical specifications

Battery type	Li-ion Rechargeable 2250 mAh
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Charging time	4 h
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Operating duration	18 h
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Communication

Bluetooth	Bluetooth 3.0 HFP (8 KHz and 16 KHz), HSP, A2DP Range: 15 m
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Connections	SENS® 360° Situational Awareness: 95 dB(A) Half-duplex communications, Up to 8 programmable FM channels, Up to 50 meters
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Ambient conditions

Charging temperature	0 ... 40 °C (32 ... 104 °F)
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Mechanical specifications

Degree of protection	IP54
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Mass	495 g
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Data for application in connection with hazardous areas

ATEX approval	
ATEX certificate	Baseefa18ATEX0049X
ATEX marking	Ⓜ I M2 Ex ib I Mb (-20°C to +60°C) Ⓜ II 2G Ex ib IIC T4 Gb (-20°C to +40°C) Ⓜ II 2D Ex ib IIC T155°C Db (-20°C to +40°C)

International approvals

IECEx approval	
IECEx certificate	IECEx BAS 18.0035X
IECEx marking	Ex ib I Mb (-20°C to +60°C) Ex ib IIC T4 Gb (-20°C to +40°C) Ex ib IIC T155°C Db (-20°C to +40°C)

UKCA approval	
UKCA certificate	BAS23UKEX0020X

Technical Data

UKCA marking		Ⓔ I M2 Ex ib I Mb (-20°C to +60°C) Ⓔ II 2G Ex ib IIC T4 Gb (-20°C to +40°C) Ⓔ II 2D Ex ib IIIC T155°C Db (-20°C to +40°C)
INMETRO approval		
INMETRO certificate		DNV 23.0209 X/00
INMETRO marking		Ex ib I Mb (-20°C to +60°C) Ex ib IIC T4 Gb (-20°C to +40°C) Ex ib IIIC T155°C Db (-20°C to +40°C)
Approved for		Mining

Technical Features

Hearing Protection

Volume limiter	82 dB(A) [programmable] - only applicable when the headset is powered on.		
Region	Australia / NZ	USA / Canada	Europe
Standard	AS/NZS 1270	ANSI S3.19	EN352-1/EN352-3
Result	SLC80	NRR	SNR
HB	31 dB, Class 5	27 dB	33 dB
BTN	27 dB, Class 5	24 dB	30 dB
HM	26 dB, Class 5	23 dB	31 dB



Headset

SM1PHWEXP01 ATEX / INMETRO

- SENS® Technology - remain aware of surrounding noises and hazards
- Clear two-way radio communication in high-noise environments
- Compatible with two-way radios and ecom mobile devices via Bluetooth®
- Bluetooth cellular connection for conversation and audio streaming (HFP, HSP and A2DP profiles)
- Improved Short Range with VOX capabilities and additional channel banks for headset-to-headset communications

SM1P, Helmet Mount, Zone 1/21, with Bluetooth



Technical Data

General specifications

Description	Helmet Mount
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Hardware

Microphone	Boom microphone noise cancelling
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Electrical specifications

Battery type	Li-ion Rechargeable 2250 mAh
Charging time	4 h
Operating duration	18 h

Communication

Bluetooth	Bluetooth 3.0 HFP (8 KHz and 16 KHz), HSP, A2DP Range: 15 m
Connections	SENS® 360° Situational Awareness: 95 dB(A) Half-duplex communications, Up to 8 programmable FM channels, Up to 50 meters

Ambient conditions

Charging temperature	0 ... 40 °C (32 ... 104 °F)
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Mechanical specifications

Degree of protection	IP54
Mass	480 g

Data for application in connection with hazardous areas

ATEX approval	
ATEX certificate	Baseefa18ATEX0049X
ATEX marking	Ⓜ I M2 Ex ib I Mb (-20°C to +60°C) Ⓜ II 2G Ex ib IIC T4 Gb (-20°C to +40°C) Ⓜ II 2D Ex ib IIC T155°C Db (-20°C to +40°C)

International approvals

IECEx approval	
IECEx certificate	IECEx BAS 18.0035X
IECEx marking	Ex ib I Mb (-20°C to +60°C) Ex ib IIC T4 Gb (-20°C to +40°C) Ex ib IIC T155°C Db (-20°C to +40°C)
UKCA approval	
UKCA certificate	BAS23UKEX0020X

Technical Data

UKCA marking		Ⓔ I M2 Ex ib I Mb (-20°C to +60°C) Ⓔ II 2G Ex ib IIC T4 Gb (-20°C to +40°C) Ⓔ II 2D Ex ib IIIC T155°C Db (-20°C to +40°C)
INMETRO approval		
INMETRO certificate		DNV 23.0209 X/00
INMETRO marking		Ex ib I Mb (-20°C to +60°C) Ex ib IIC T4 Gb (-20°C to +40°C) Ex ib IIIC T155°C Db (-20°C to +40°C)
Approved for		Mining

Technical Features

Hearing Protection

Volume limiter	82 dB(A) [programmable] - only applicable when the headset is powered on.		
Region	Australia / NZ	USA / Canada	Europe
Standard	AS/NZS 1270	ANSI S3.19	EN352-1/EN352-3
Result	SLC80	NRR	SNR
HB	31 dB, Class 5	27 dB	33 dB
BTN	27 dB, Class 5	24 dB	30 dB
HM	26 dB, Class 5	23 dB	31 dB



Headset

SM1PEWEXP01 ATEX / INMETRO

- SENS® Technology - remain aware of surrounding noises and hazards
- Clear two-way radio communication in high-noise environments
- Compatible with two-way radios and ecom mobile devices via Bluetooth®
- Bluetooth cellular connection for conversation and audio streaming (HFP, HSP and A2DP profiles)
- Improved Short Range with VOX capabilities and additional channel banks for headset-to-headset communications

SM1P, Behind-The-Neck, Zone 1/21, with Bluetooth



Technical Data

General specifications

Description	Behind-The-Neck
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Hardware

Microphone	Boom microphone noise cancelling
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Electrical specifications

Battery type	Li-ion Rechargeable 2250 mAh
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Charging time	4 h
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Operating duration	18 h
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Communication

Bluetooth	Bluetooth 3.0 HFP (8 KHz and 16 KHz), HSP, A2DP Range: 15 m
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Connections	SENS® 360° Situational Awareness: 95 dB(A) Half-duplex communications, Up to 8 programmable FM channels, Up to 50 meters
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Ambient conditions

Charging temperature	0 ... 40 °C (32 ... 104 °F)
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Mechanical specifications

Degree of protection	IP54
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Mass	428 g
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Data for application in connection with hazardous areas

ATEX approval

ATEX certificate	Baseefa18ATEX0049X
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ATEX marking	Ⓜ I M2 Ex ib I Mb (-20°C to +60°C) Ⓜ II 2G Ex ib IIC T4 Gb (-20°C to +40°C) Ⓜ II 2D Ex ib IIC T155°C Db (-20°C to +40°C)
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International approvals

IECEx approval

IECEx certificate	IECEx BAS 18.0035X
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IECEx marking	Ex ib I Mb (-20°C to +60°C) Ex ib IIC T4 Gb (-20°C to +40°C) Ex ib IIC T155°C Db (-20°C to +40°C)
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UKCA approval

UKCA certificate	BAS23UKEX0020X
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Technical Data		
UKCA marking		Ⓜ I M2 Ex ib I Mb (-20°C to +60°C) Ⓜ II 2G Ex ib IIC T4 Gb (-20°C to +40°C) Ⓜ II 2D Ex ib IIIC T155°C Db (-20°C to +40°C)
INMETRO approval		
INMETRO certificate		DNV 23.0209 X/00
INMETRO marking		Ex ib I Mb (-20°C to +60°C) Ex ib IIC T4 Gb (-20°C to +40°C) Ex ib IIIC T155°C Db (-20°C to +40°C)
Approved for		Mining

Technical Features

Hearing Protection

Volume limiter	82 dB(A) [programmable] - only applicable when the headset is powered on.		
Region	Australia / NZ	USA / Canada	Europe
Standard	AS/NZS 1270	ANSI S3.19	EN352-1/EN352-3
Result	SLC80	NRR	SNR
HB	31 dB, Class 5	27 dB	33 dB
BTN	27 dB, Class 5	24 dB	30 dB
HM	26 dB, Class 5	23 dB	31 dB



Headset

SM1PBWISPF01 NAM

- SENS® Technology - remain aware of surrounding noises and hazards
- Clear two-way radio communication in high-noise environments
- Compatible with two-way radios and ecom mobile devices via Bluetooth®
- Bluetooth cellular connection for conversation and audio streaming (HFP, HSP and A2DP profiles)
- Improved Short Range with VOX capabilities and additional channel banks for headset-to-headset communications

SM1P, Headband, Division 1, with Bluetooth



Technical Data

General specifications

Description	Headband
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Hardware

Microphone	Boom microphone noise cancelling
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Electrical specifications

Battery type	Li-ion Rechargeable 2250 mAh
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Charging time	4 h
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Operating duration	18 h
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Communication

Bluetooth	Bluetooth 3.0 HFP (8 KHz and 16 KHz), HSP, A2DP Range: 15 m
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Connections	SENS® 360° Situational Awareness: 95 dB(A) Half-duplex communications, Up to 8 programmable FM channels, Up to 50 meters
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Ambient conditions

Charging temperature	0 ... 40 °C (32 ... 104 °F)
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Mechanical specifications

Degree of protection	IP54
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Mass	495 g
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International approvals

NEC/CEC approval	
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NEC/CEC certificate	SGSNA/18/SUW/00190
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NEC/CEC marking	Class I, Division 1, Groups A-D T3C (-20°C to +40°C) Class I Zone 0 AEx ia IIC T3 Ga (-20°C to +40°C) Ex ia IIC T3 Ga (-20°C to +40°C)
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Approved for	Mining
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Technical Features

Hearing Protection

Volume limiter	82 dB(A) [programmable] - only applicable when the headset is powered on.		
Region	Australia / NZ	USA / Canada	Europe
Standard	AS/NZS 1270	ANSI S3.19	EN352-1/EN352-3
Result	SLC80	NRR	SNR
HB	31 dB, Class 5	27 dB	33 dB
BTN	27 dB, Class 5	24 dB	30 dB
HM	26 dB, Class 5	23 dB	31 dB



Headset

SM1PHWISPF01 NAM

- SENS® Technology - remain aware of surrounding noises and hazards
- Clear two-way radio communication in high-noise environments
- Compatible with two-way radios and ecom mobile devices via Bluetooth®
- Bluetooth cellular connection for conversation and audio streaming (HFP, HSP and A2DP profiles)
- Improved Short Range with VOX capabilities and additional channel banks for headset-to-headset communications

SM1P, Helmet Mount, Division 1, with Bluetooth



Technical Data

General specifications		
Description		Helmet Mount
Hardware		
Microphone		Boom microphone noise cancelling
Electrical specifications		
Battery type		Li-ion Rechargeable 2250 mAh
Charging time		4 h
Operating duration		18 h
Communication		
Bluetooth		Bluetooth 3.0 HFP (8 KHz and 16 KHz), HSP, A2DP Range: 15 m
Connections		SENS® 360° Situational Awareness: 95 dB(A) Half-duplex communications, Up to 8 programmable FM channels, Up to 50 meters
Ambient conditions		
Charging temperature		0 ... 40 °C (32 ... 104 °F)
Mechanical specifications		
Degree of protection		IP54
Mass		480 g
International approvals		
NEC/CEC approval		
NEC/CEC certificate		SGSNA/18/SUW/00190
NEC/CEC marking		Class I, Division 1, Groups A-D T3C (-20°C to +40°C) Class I Zone 0 AEx ia IIC T3 Ga (-20°C to +40°C) Ex ia IIC T3 Ga (-20°C to +40°C)
Approved for		Mining

Technical Features

Hearing Protection

Volume limiter	82 dB(A) [programmable] - only applicable when the headset is powered on.		
Region	Australia / NZ	USA / Canada	Europe
Standard	AS/NZS 1270	ANSI S3.19	EN352-1/EN352-3
Result	SLC80	NRR	SNR
HB	31 dB, Class 5	27 dB	33 dB
BTN	27 dB, Class 5	24 dB	30 dB
HM	26 dB, Class 5	23 dB	31 dB



Headset

Ex-TRA 30 LH NH Zone 2 ATEX



- Certified according to latest ATEX standards
- For use in ATEX Zone 2
- Available in three different hearing protection headset versions

Intrinsically Safe Headset for ATEX Zone 2, Neckband and Helmet (Light Headset)



Technical Data

General specifications

Description	Light headphones - neck strap and helmet
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Hardware

Speaker	32 Ohm at 1 kHz (+/- 15%)
Microphone	Max. 2200 Ohm bei 1 kHz

Ambient conditions

Operating temperature	-20 ... 50 °C (-4 ... 122 °F)
Storage temperature	-20 ... 50 °C (-4 ... 122 °F)

Mechanical specifications

Degree of protection	IP54
Connector	3.5 mm plug with screw
Cable	
Length	L 38 cm, extendable to 130 cm
Mass	60 g

Data for application in connection with hazardous areas

ATEX approval	
ATEX certificate	PF20CERT5579X
ATEX marking	Ⓔ II 3G Ex ic IIA T4 Gc Ta = -20 °C to +60 °C

General information

Scope of delivery	Headset Documentation
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Headset

Ex-TRA 30 EPH B Zone 2 ATEX



- Certified according to latest ATEX standards
- For use in ATEX Zone 2
- Available in three different hearing protection headset versions

Intrinsically Safe Headset for ATEX Zone 2, Headband



Technical Data

General specifications

Description	Headband
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Hardware

Speaker	30 Ohm at 1 kHz (+/- 15%)
Microphone	Max. 4400 Ohm bei 1 kHz

Ambient conditions

Operating temperature	-20 ... 50 °C (-4 ... 122 °F)
Storage temperature	-20 ... 50 °C (-4 ... 122 °F)

Mechanical specifications

Connector	3.5 mm plug with screw
Cable	coiled
Length	L 50 cm - 130 m
Mass	350 g

Data for application in connection with hazardous areas

ATEX approval	
ATEX certificate	PF19CERT5391X
ATEX marking	Ⓔ II 3G Ex ic IIA T4 Gc Ta = -20 °C to +60 °C

General information

Scope of delivery	Headset Documentation
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Headset

Ex-TRA 30 EPH N Zone 2 ATEX



- Certified according to latest ATEX standards
- For use in ATEX Zone 2
- Available in three different hearing protection headset versions

Intrinsically Safe Headset for ATEX Zone 2, Neckband



Technical Data

General specifications

Description	Behind-The-Neck
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Hardware

Speaker	30 Ohm at 1 kHz (+/- 15%)
Microphone	Max. 4400 Ohm bei 1 kHz

Ambient conditions

Operating temperature	-20 ... 50 °C (-4 ... 122 °F)
Storage temperature	-20 ... 50 °C (-4 ... 122 °F)

Mechanical specifications

Connector	3.5 mm plug with screw
Cable	coiled
Length	L 50 cm - 130 m
Mass	380 g

Data for application in connection with hazardous areas

ATEX approval	
ATEX certificate	PF19CERT5391X
ATEX marking	Ⓔ II 3G Ex ic IIA T4 Gc Ta = -20 °C to +60 °C

General information

Scope of delivery	Headset Documentation
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