



Headset

SM1P series

SM1PHWEXPFO1 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

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

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

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Technical Data

UKCA marking	<ul style="list-style-type: none"> Ⓜ 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	<ul style="list-style-type: none"> 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 / New Zealand	USA / Canada	Europe
Standard	AS/NZS 1270	ANSI S3.19	EN352-1/EN352-3
Result	SLC80	NRR	SNR
SM1P-EX / -IS (HB)	31 dB, Class 5	27 dB	33 dB
SM1P-EX / -IS (BTN)	27 dB, Class 5	24 dB	30 dB
SM1P-EX / -IS (HM)	26 dB, Class 5	23 dB	31 dB
SM1P-EXDP (HM)	30 dB, Class 5	36 dB	38 dB
SM1P-ISDP (HM)	30 dB, Class 5	36 dB	38 dB

HB = Headband, BTN = Behind-the-neck, HM = Helmet mount

Accessories

Accessories for this product can be found on the internet at www.pepperl-fuchs.com.