



Headset

SM1P series

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

Release date: 2025-04-08 Date of issue: 2025-04-08 Filename: t223025_eng.pdf

Technical Data

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	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 / 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.