ecom instruments

mobile experts

Intrinsically-Safe Professional Mobile Radio Ex-PMR 2000

ecom has developed a new professional handheld radio specifically for your daily work in ex-hazardous areas. The Ex-PMR 2000 offers safe and reliable voice communication in daily operation or even in emergency situations. Communicate simply and without risk with your colleagues – at any time in all situations.

The Ex-PMR 2000 complies with the latest standards and may be used in areas with the protective ratings of Ex II 2 G EEx ia IIC T4 in Zones 1 and 2 as well as 21, in accordance with ATEX directives.

This professional radio operates in two different frequency bands and is available in either the VHF 136-174 MHz or the UHF 400-470 MHz version. The radio's transmission power has been limited to 1.2 watts for safe working in potentially explosive areas and initiating calls even over large distances.

In addition, the Ex-PMR 2000 complies with IP 64 and therefore satisfies high industrial demands on ruggedness and reliability, particularly in ex-hazardous areas. The CTCSS and DCS pilot tone systems and the signalling modes with two- and five-tone signals guarantee that communication is secure thus preventing interference from other radio communication.

The Ex-PMR 2000 is equipped with a variety of mechanisms to protect lone workers. The integrated position sensor enables the monitoring of angles and will in emergency situations trigger an automatic alarm (dead-man's switch). The functions for protecting lone workers as well as the emergency button also allow manual alarms to be triggered by workers in emergency situations.

All parameters for the Ex-PMR 2000 functions may be comfortably set on a PC using the corresponding software kit and can also be saved for programming several units. Thus minimizing work and ensuring that all radios harmonize with each other.

- 16 channels
- Programmable channel spacing
- CTCSS, DCS, 2- and 5-tone signalling
- Scan mode
- Adjustable squelch levels
- Transmission time limitation (TOT)
- Voice-operated transmission (VOX)
- Emergency alarm functions
- Lone worker protection
- Dead-man's switch with position sensor

Ex-data:
Ex-designation:
Ⓔx II 2 G Ex ia IIC T4

EC-Certificate of Conformity:
ZELM 06 ATEX 0318

Standard delivery:
- Ex-PMR 2000 U/V
- rechargeable battery Ex-AM PMR 2000
- Belt clip
- Operating instructions

Optional accessories:
- Leather case
- Remote speaker / microphone Ex-HS 02
- Earphone with PTT Ex-EPM 02
- Spare battery Ex-AM PMR 2000
- MC PMR 2000 multicharger
- Software kit, incl. data cable
- LS & PS PMR 2000 - single charging set

Technical data:	
Frequency range:	VHF 136-174 MHz, UHF 400-470 MHz
Number of channels:	16
Channel spacing:	12.5/20/25 KHz
Operating voltage:	7.4 V
Operating temperature:	-20°C ... +50°C
Antenna impedance:	50 Ω
Protection rating:	IP64
Dimensions (LxWxD):	119 x 59 x 45 mm
Weight:	approx. 400g
Battery:	1700 mAh, Lithium-Ion
Operating time:	approx. 12 hours