



Intrinsically-Safe Two-Way-Radio Ex-PMR 1000

The Ex-PMR 1000 is a license and charge-free two-way radio for wireless communication in Ex-hazardous areas.



Safe and reliable communication is an important aspect in Ex-hazardous areas. Stringent requirements have to be satisfied by all radio transceivers used, to ensure a safe communication, even over long distances.

The ecom Ex-PMR 1000 portable radio transceiver was developed specifically for this purpose. Featuring ATEX certification in protection class Ex II 2 G Eex ib IIC T4 or Ex II 3 DT I 30°C IP 54, the device can be used in Zones 1 and 2, or 22.

The frequency band ranging from 446.000 MHz to 446.100 MHz was opened for public use by the ERC with the publication of its decision ERC/DEC/(98) 25, 26, 27 dated 1 December 1998. All handheld devices with fixed antenna which operate in this frequency range conform to the ETS 300296 licensing standard and are allowed to be used license- and charge-free in many European countries.

The Ex-PMR 1000 fulfils the rigid specifications of IP54 and therefore meets the high demand for industrial ruggedness and reliability especially for applications in Ex-hazardous areas.

The maximum transmission power is limited to 500 mW ERP, giving a range of up to 5 km. The CTCSS and DCS pilot tone systems are configured for selective analogue and digital coding. A variety of pilot tones enables users to communicate within groups.

All functions of the radio unit can be easily preconfigured via a PC using the optional software kit.

- 16 channels
- DCS selective call for transmission and reception
- Up to 5 km range
- Scan function
- Approved for dust-Ex-areas (zone 22)
- Squelch tail elimination (9 levels)
- TOT (transmission time limit)
- Battery save function
- IP54 protection rating

Standard delivery:

- Radio unit Ex-PMR 1000
- Ex-battery pack Ex-AM PMR 1000
- Belt clip for Ex-PMR 1000
- Charger LS PMR 1000
- Power supply unit PS PMR 1000
- Operating instructions

Ex-data:

Ex designation:

Ⓜ II 2 G EEx ib IIC T4

Ⓜ II 3 D T130°C IP 54












EC-Certificate of Conformity:

ZELM 05 ATEX 0271

Technical data:

Frequency range:	446.00625 – 446.09375 MHz
Sensitivity:	approx. 0.25 µV at 12 dB SINAD
Channel spacing:	12.5 KHz
Max. transmission power:	500 mW ERP
IP protection:	IP 54
Battery pack:	Rechargeable Li-Ion battery pack Ex-AM PMR 1000 with 1700mAh
Ambient temperature:	-20 °C ... 50 °C
Operating time:	approx. 12 h (90 % standby, 5 %TX, 5 %RX)
Dimensions (LxWxD):	140 x 60 x 35 mm
Weight:	approx. 430g

Accessories for Intrinsically-Safe Two-Way-Radio Ex-PMR 1000

	Description		Description
	Battery Ex-AM PMR 1000 (1700 mAh Li-Ion)		Charger Power adaptor and charger (UK or EU)
	Leather case incl. carrying strap and belt loop (black)		Software Kit incl. data cable (attention serial plug needed)
	Microphone-/Remote speaker combination Ex-HS01		Ear Protection Headset Ex-TRA 300 Available with helmet adap- ter for popular safety helmets
	Neck band Headset Ex-TRA 300		Fire brigade headset Ex-TRA 300 Adapter for almost every helmet available
	Belt clip		Ear plug for HS01
			Hand Strap (included in the set)



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.