

MDH56QCC9LA3AN

UHF Radio DP4401 Ex

Digital Portable Radio

This item has been replaced by the R7Ex series UHF Radios, some spare parts may be available in the market.

This item is also discontinued by Motorola.

- Easy to use
- Exceptional voice quality
- Long battery life
- Non-display model
- ATEX / IECEx rated
- IP67
- Note:For Marine, only UHF-versions are approved according to Radio Equipment Directive (RED).

DMR GNSS Man down Onboard communication UHF Marine UHF/VHF IP67 Atex

Description

The UHF Radio DP4401 Ex combines the best of two-way radio functionality with the latest digital technology. It integrates voice and data seamlessly, offers enhanced features that are easy to use, and delivers increased capacity to efficiently connect all your crews. With exceptional voice quality, long battery life and ATEX/IECEx-rated for safety, the UHF Radio DP4401 Ex keeps your workers connected safely and productively, wherever the job takes them.

UHF Radio DP4401 Ex

The UHF Radio DP4401 Ex meets the ETSI DMR Standard to deliver integrated voice and data, clearer voice communications, and up to 40% longer battery life than analogue. It features large PTT, volume, channel knobs, and programmable buttons that are easy to use, even when wearing gloves.

The UHF Radio DP4401 Ex is designed for worker safety. Loud, clear performance, and innovative features like Intelligent Audio and Transmit Interrupt help ensure messages get through in the noisiest environments.

An integrated man-down and lone worker feature sends an instant alert if a mishap occurs and the bright blue color helps ensure workers can easily identify and carry only ATEX/IECEx-approved radios into hazardous environments.

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Specifications

GENERAL SPECIFICATIONS

Frequency Band	UHF B1 (403-470MHz)
Zone Capacity	2
Max. No. of Conv. Channels or Personality Capacity	32
Dimensions (H x W x L) with Li-Ion battery	138.5 x 56.7 x 37.8mm
Weight with Li-Ion battery	455.5g
Power Supply	7.4 V Nominal
FCC Description	UHF B1: ABZ99FT4091
Programmable Buttons	3
IC Description	UHF: 109AB-99FT4091
Gas Rating	ATEX: Class II 2G Ex ib IIC T4 Gb
Dust Rating	ATEX: Class II 2D Ex ib IIIC T130 °C Db
Mining Rating	ATEX: Class I M2 Ex ib I Mb
Ingress Protection (IP) Rating	IP67*
Typical battery life with IMPRES Li-Ion (5/5/90 duty cycle) Note: No GOB, No GPS, Analogue Conventional	16 hrs
Typical battery life with IMPRES Li-Ion (5/5/90 duty cycle) Note: No GOB, No GPS, Digital Conventional	19 hrs

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RECEIVER

Channel Spacing	12.5/20/25KHz
Frequency Stability (-30° C, +60° C, +25° C)	±0.5ppm
Analogue Sensitivity (12 dB SINAD) Typical	0.25uV
Intermodulation (TIA603C)	70dB
Adjacent Channel Selectivity (TIA603) - 1T	60dB @ 12.5kHz / 70dB @ 20/25kHz
Adjacent Channel Selectivity (TIA603C) - 2T	45dB @ 12.5kHz / 70dB @ 20/25kHz
Spurious Rejection (TIA603C)	70dB
Rated Audio	0.5W
Audio Distortion @ Rated Audio	5%, 3% (typical)
Hum and Noise	-40dB @ 12.5kHz -45dB @ 20/25kHz
Audio Response	TIA603C
Conducted Spurious Emission (ETSI)	-57dBm

TRANSMITTER

Channel Spacing	12.5/20/25KHz
Frequency Stability (-30° C, +60° C)	±0.5ppm
Power Output	1W
Modulation Limiting	±2.5kHz @ 12.5kHz ±4.0kHz @ 20kHz ±5.0kHz @ 25kHz
FM Hum and Noise	-40dB @ 12.5kHz / -45dB @ 20/25kHz
Conducted / Rated Emission (ETSI)	36 dBm < 1GHz, -30 dBm > 1GHz
Adjacent Channel Power	60dB @ 12.5kHz, 70dB @ 20/25kHz
Audio Response	TIA603C
Audio Distortion (per EIA)	3%
FM Modulation	12.5 kHz: 11K0F3E 25 kHz: 16K0F3E

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ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-20°C to +55°C
Storage Temperature	-40°C to +85°C
Thermal Shock	MIL STD 810D, E, F, G
Humidity	MIL STD 810D, E, F, G
ESD	IEC-801-2KV
Water Intrusion	IEC-60529 IP67
Packaging Test	MIL STD 810D, E, F, G

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