

MOTOTRBO™ DP4000 Ex SERIES ATEX PORTABLE RADIOS

**KEEPING YOU SAFER IN THE
TOUGHEST ENVIRONMENTS**



DP4000 Ex SERIES MOTOTRBO™ ATEX DIGITAL PORTABLE RADIOS

GENERAL SPECIFICATIONS

	DP4801 Ex DISPLAY	DP4401 Ex NON-DISPLAY	DP4801 Ex Ma DISPLAY	DP4401 Ex Ma NON-DISPLAY
Frequency Band	UHF B1 (403-470MHz) and VHF (136-174MHz)			
Zone Capacity	250	2	250	2
Max. No. of Conv. Channels or Personality Capacity	1000	32	1000	32
Dimensions (H x W x L) with Li-Ion battery	138.5 x 56.7 x 39.8mm	138.5 x 56.7 x 37.8mm	138.5 x 56.7 x 39.8mm	138.5 x 56.7 x 37.8mm
Weight with Li-Ion battery	482.5g	455.5g	482.5g	455.5g
Power Supply	7.4 V Nominal			
FCC Description	UHF B1: ABZ99FT4091 VHF: ABZ99FT3089		—	
Programmable Buttons	5	3	5	3
Integrated GPS Receiver	Yes		No	
IC Description	UHF: 109AB-99FT4091 VHF: 109AB-99FT3089		—	
Gas Rating	ATEX: Class II 2G Ex ib IIC T4 Gb IECEx: Ex ib IIC T4 Gb			
Dust Rating	ATEX: Class II 2D Ex ib IIIC T130 °C Db IECEx: Ex ib IIIC T130°C Db			
Mining Rating	ATEX: I M2 Ex ib I Mb IECEx: Ex ib I Mb		ATEX: I M1 Ex ia I Ma IECEx: Ex ia I Ma	
Battery Part Number	NNTN8359		NNTN8840	
Typical** battery life Analogue	16 hrs			
Typical** battery life Digital	19 hrs			

RECEIVER

	ALL MODELS
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

	ALL MODELS
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

ENVIRONMENTAL SPECIFICATIONS

	ALL MODELS
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
Ingress Protection (IP) Rating	IP67*

*DP4000 Ex Series radios are rated IP67 and are also certified to the highest ingress protection available under ATEX/IECEx test conditions - IP64

**Ma radios do not have GPS.

***Assuming 5/5/90 duty cycle, no option board, no GPS, conventional operation.

For more information on how to communicate safely in hazardous locations, visit motorolasolutions.com/mototrbo or find your closest Motorola representative or authorised Partner at motorolasolutions.com/contactus.

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Availability is subject to individual country law and regulations. All specifications shown are typical unless otherwise stated and are subject to change without notice.

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