

maxon®



Compact—5"Hx2½"Wx⅞"D; weighs only 7 ounces

DM-0500 Series Telemetry/Data Module Radios

Single channel, 2 watts
(5 watts, optional)

Durable FR-4 glass epoxy
circuit board

Only 5" high, 2 5/16" wide, and
7/8" thick

Rugged stainless steel housing

UHF and VHF models

In combination with hand-held computers/bar code readers* and SCADA applications—Maxon module radios meet your RF needs. Solid state switching and direct FM modulation provide high speed data capability. The DM-0500 Series is optimized for SCADA, computer polling and telemetry applications.

*Those capable of sending modem tones and PTT to an RF device.

Performance Specifications

GENERAL	DM-0515 VHF/DM-0530 UHF
Frequency Range	150-174 MHz/450-470 MHz
Channels	1
Channel Spacing	25 kHz
Emission	F2, F3
Operating Temperature	-30° to +60° C
FCC Compliance: Parts	22, 74, 90, 95
Supply Voltage	10.8V std., 7.5V optional
Nominal Dimensions	5¼x2¾x7/8" (incl. connectors) (135x60x25 mm)
Approx. Weight	7.0 oz. (196 gm.)
Case Material	Stainless steel

TRANSMITTER (measurements made per RS316A)

RF Output	2 watts std., 5 watts optional
Frequency Stability	+0.0005%
Modulation	16F3 ± 5 kHz
Spurious & Harmonic Emissions	Less than -60 dB
Current Drain	750 mA (2 watts)
Transmitter Attack	20 ms

RECEIVER (measurements made per RS316A)

Sensitivity	
12 dB SINAD	0.35 µV
20 dB Quieting	0.50 µV
Selectivity	-65 dB @ ± 25 kHz
Intermodulation Rejection	-60 dB
Spurious & Image Rejection	-60 dB
Frequency Stability	±0.001%
Modulation Acceptance	7.0 kHz
Receiver Attack	18 ms
Max. Carrier Detect Operating Level	14 dB SINAD
Current Drain Stby.	18 mA

Compatible Accessories

MD-1232

The MD-1232 is a self contained 1200 baud modem which can be easily connected to the Maxon DM Series Data Radios. The MD-1232 supports semi-duplex operation and allows the digital input and output data to be either TTL or RS-232 signal levels.

MD-1205B

The MD-1205B is the MD-1232 installed in a stainless housing and configured for TTL signal levels. DB-9 male and female connectors included.

MD-1210B

The MD-1210B is the MD-1232 installed in a stainless steel housing and configured for RS-232 signal levels. DB-9 male and female connectors included.

MD-1400

The MD-1400 is an OMNI cover for the DM Series Data Radios. Installation of this cover allows for the additional room required for an MD-1232 modem board and other accessories.

Specifications subject to change without notice.

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