



### FEATURES

- *Rugged and reliable*
- *Excellent audio quality*
- *99 Channels on PM160*
- *4 Channels on PM100*
- *Channel scanning*
- *PC Programmable*
- *Easy installation*
- *Tested to Military Standards*
- *DIN Mounting*
- *Optimised Radio Parameters*



### BENEFITS

Organisations with a mobile work force are realising the need for reliable, easy to use, communications systems. Ideal for taxi, courier and construction industries this mobile radio can provide effective fleet management with the benefit of low running costs.

The PM100 is a simple, easy to use, 4 channel mobile with a high specification at an affordable price. Rugged construction using surface mount technology means the PM100 will give you years of quality use with trouble free service. Its compact design means that the radio allows for quick and easy installation in many vehicles. The PM100 is also available as a data enabled unit- the PM100D for extra functionality. The PM160 is similar to the PM100, with the additional benefit of 99 channels.

## TECHNICAL SPECIFICATIONS

GENERAL	
Performance Specification:	CE0168 0 R&TTE Directive 1999/5/EC RF: ETSI EN 300 086, EN 300 219, EN 300 113
Band:	<b>PM100</b> VHF: 148-174MHz UHF: 400-430MHz UHF: 440-470MHz <b>PM160</b> VHF: 148-174MHz UHF: 440-470MHz Full Band switching
Number of channels:	<b>PM100</b> - 4 <b>PM160</b> - 99
Channel Spacing:	12.5KHz / 20KHz / 25KHz Programmable/ per channel
Operation:	Half Duplex
Tone Sets:	CTCSS/DCS
Power Supply:	13.2V dc nominal
Current consumption:	OFF <100µA <160mA Standby (muted) with battery save OFF <0.7A @ 100% AF Power <2.2A Transmit @ 2W RF Output <7A Transmit @ 25W RF Output
Weight:	1300g
Physical dimensions:	58mm x 174mm x 167mm (H x W x D)
TRANSMITTER	
RF Output Power:	1 - 25W (Programmable hi/low)
Spurious and Harmonics (conducted):	9KHz-1GHz: Better than -36dBm 1GHz- 4GHz: Better than -30dBm
Modulation:	G3E (PM)
Hum and noise (residual modulation):	12.5KHz: Better than 40dB (with PSOPH)
Microphone sensitivity	20mV +/- 15mV p-p @1KHz peak system deviation
Transmitter Audio distortion	<5% nominal <10% extreme (@ 1KHz, without CTCSS)
Load Stability	No oscillation at 10:1 VSWR No damage at 20:1 VSWR
Adjacent Channel Power:	12.5KHz: Better than 60dB
Frequency error:	Better than 0.75KHz
RECEIVER	
Receiver Sensitivity:	UHF: Better than -117dBm VHF: Better than -118dBm
Adjacent channel selectivity:	12.5KHz: Better than 60dB 20KHz: Better than 70dB 25KHz: Better than 70dB
Spurious response rejection:	Half IF response: Better than 70dB
Intermodulation response rejection:	+/- 25/50KHz: 65dB +/- 50/100KHz: 65dB
RX Spurious Emissions (conducted):	9KHz - 1GHz: Better than -57dBm 1GHz - 4GHz: Better than -47dBm
Audio Power Output:	500mW min (8 Ohm external speaker) <10% THD @1W, 4 Ohm internal speaker
ENVIRONMENTAL	
Operating Temperature range:	+10 deg C to +35 deg C (normal) -25 deg C to +55 deg C (extreme)
Robustness:	Designed to Mil Std 810 C procedures I, II & V, D & E
Protection against ingress of dust and water:	IEC 529 IP54
EMC	EMC Directive 89/336/EEC ETSI EN 301 489
Safety	LV Directive 73/23/EC EN60950
Automotive Approval	95/54/EC E11 02 0856
Humidity	EIA/TIA 603 (95%)

### ACCESSORIES

Maxon has a range of accessories to enhance these radio's with, power supplies, speaker microphones and hands-free kits.



**MB4000**  
Desk-Top Microphone.



**HFK100-01**  
In-Car Hands Free Kit.



**MS2600**  
Desktop PSU. Includes PM100 front panel. Does not include radio or microphone as shown.

Use Maxon's accessories to tailor your radio to your individual needs. Ask your dealer for the comprehensive range available.

\* Specifications are subject to change without notice and range will vary depending on the topography and the surrounding environment. Figures above are typical and measured under normal operating conditions. As such they will not form part of any contract. Our policy is one of continuous improvement and we reserve the right to change product specifications without notice.

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Dealer Stamp