

Maxon PM100 / 160 MOBILE

maxon



FEATURES

- **Rugged Cast Aluminium Construction**
- **Channel Scanning with Lookback**
- **Tested to Military Standards**
- **PC Programmable**
- **Easy Installation**

Organisations with a mobile workforce are realising the need for reliable, easy to use, communications systems. Mobile radio systems can provide effective fleet management with the benefit of low running costs.

The PM100 is a simple, easy to use, 4 channel mobile (99 channels on the PM160) with a high specification but an affordable price. Options include a data board and the selcall / inversion scrambler. Its front panel speaker allows for quick and easy installation.

Rugged construction using surface mount technology means the PM100 and PM160 will give you years of trouble free service.

GENERAL

Performance Specifications

CE0168

R&TTE Directive 1999/5/EC

RF: ETSI EN 300 086, EN 300 219, EN 300 113

Band	PM100 VHF: 136-162MHz VHF: 148-174MHz UHF: 400-430MHz UHF: 420-450MHz UHF: 440-470MHz Full Band switching	PM160 VHF: 148-174MHz UHF: 440-470MHz
Number of Channels	PM100 - 4 PM160 - 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 <10mA <160mA Standby (muted) with battery save ON <1.6A Transmit @ 1W RF Output <6.5A 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: Frequency error:	12.5KHz: Better than 60dB 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
Interface Connector:	Single two pole 3.5mm jack with screw lock

ENVIRONMENTAL

Operating Temperature range:	+10 deg C to +35 deg C (normal) -30 deg C to +60 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	EN60950, LVD 73/23/EC
Automotive Approval	95/54/EC, e11 02 0856
Humidity	EIA/TIA 603 (95%)

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.

Maxon Europe Ltd., Maxon House, Maxted Close,
Hemel Hempstead, Hertfordshire, HP2 7EG. United Kingdom

Tel: Int +44 (0) 1442 267777
Fax: Int +44 (0) 1442 215515
E-mail: sales@maxon.co.uk

Website: www.maxon.co.uk