SPECIFICATION SHEET

MOTOROLA

GP140

Communication Made Easy.

KEY FEATURES

Signalling
- Private Line™
- Conventional / MDC

Easy to use and set-up
- Programmable buttons
- Ruggedised design

Protecting users
- Emergency call
- PTT ID
- Time-out timer

Quality
- MIL Spec 810 compliant
- Meets IP54 environmental standards
- Passed Motorola Accelerated Life Test
- X-Pand™ voice compression technology

Efficiency
- Channel scanning
- Adjustable power levels for battery life management
- Call management features including call forwarding

Included as standard
- Battery
- Antenna
- Belt clip
- Accessory dust cover
- User manual

Accessory options

A wide range of accessory options are available to customise your radio
- Audio accessories
- Batteries and chargers
- Carry options

For full details of available accessories, please contact your local dealer

The GP140, one of the market-leading radios in Motorola's Professional Series, is a simple and affordable communication solution for portable users requiring a high-quality radio. It is easy to use with essential functionality and is the ideal entry solution.

With option board capability and a wide range of accessories available within the Professional Series; it's easy to build a tailored communications solution to meet your needs.

SPECIFICATIONS

GENERAL SPECIFICATIONS		
Channel Capacity	1	
Power Supply	Rechargeable battery 7.5v	
Dimensions: H x W x D (mm)	Height excluding knobs	
With Standard high capacity NiMH battery	137 x 57.5 x 37.5	
With Ultra high capacity NiMH battery	137 x 57.5 x 40.0	
With NiCD battery	137 x 57.5 x 40.0	
With Li-Ion battery	137 x 57.5 x 33.0	
Weight: (gm)		
With Standard high capacity NiMH battery	420	
With Ultra high capacity NiMH battery	500	
With NiCD battery	450	
With Li-Ion battery	350	
Average battery Life @5/5/90 Cycle:	**Low Power**	**High Power**
With Standard high capacity NiMH battery	11 hours	8 hours
With Ultra high capacity NiMH battery	14 hours	11 hours
With NiCD battery	12 hours	9 hours
With Li-Ion	11 hours	8 hours
Sealing:	Withstands rain testing per MIL STD 810 C/D/E and IP54	
Shock and Vibration:	Protection provided via impact resistant housing exceeding MIL STD 810-C/D/E and TIA/EIA 603	
Dust and Humidity:	Protection provided via environment resistant housing exceeding MIL STD 810 C/D/E and TIA/EIA 603	
Operating temperature:	-20°C to +55°C	

PORTABLE MILITARY STANDARDS 810 C, D & E						
	810C		**810D**		**810E**	
Applicable MIL-STD	**Methods**	**Procedures**	**Methods**	**Procedures**	**Methods**	**Procedures**
Low Pressure	500.1	1	500.2	2	500.3	2
High Temperature	501.1	1,2	501.2	1,2	501.3	1,2
Low Temperature	502.1	1	502.2	1,2	502.3	1,2
Temp. Shock	503.1	1	503.2	1	503.3	1
Solar Radiation	505.1	1	505.2	1	505.3	1
Rain	506.1	1,2	506.2	1,2	506.3	1,2
Humidity	507.1	2	507.2	2,3	507.3	2,3
Salt Fog	509.1	1	509.2	1	509.3	1
Dust	510.1	1	510.2	1	510.3	1
Vibration	514.2	8,10	514.3	1	514.4	1
Shock	516.2	1,2,5	516.3	1,4	516.4	1,4

Data for +25°C unless otherwise specified

TRANSMITTER	
***Frequencies - Full Bandsplit**	VHF: 136-174 MHz UHF: 403-470 MHz
Channel Spacing	12.5/20/25 kHz
Frequency Stability (-25°C to +55°C, + 25°C Ref.)	±2.5 ppm
Power	136-174:1-5W 403-470: 1-4W
Modulation Limiting	±2.5 @ 12.5 kHz ±4.0 @ 20 kHz ±5.0 @ 25 kHz
FM Hum & Noise	-40 dB typical
Conducted/Radiated Emission	-36 dBm <1 GHz -30 dBm >GHz
Adjacent Channel Power	-60 dB @ 12.5 kHz -70 dB @ 20/25 kHz
Audio Response (300-3000Hz)	+1 to -3 dB
Audio Distortion	3%

RECIEVER	
***Frequencies - Full Bandsplit**	VHF: 136-174 MHz UHF: 403-470 MHz
Channel Spacing	12.5/20/25 kHz
Frequency Stability (-25°C to +55°C, + 25°C Ref.)	±2.5ppm
Sensitivity (12 dB SINAD) EIA	.25 µV typical
Sensitivity (20 dB SINAD) EN	.50 µV typical
Intermodulation EIA	70 dB
Adjacent Channel Selectivity	60 dB @ 12.5 kHz 70 dB @ 20/25 kHz
Spurious Rejection	70 dB
Rated Audio	0.5W
Audio Distortion	
@ Rated Audio	3% typical
Hum & Noise	-40 dB @ 12.5 kHz -50 dB @ 20/25 kHz
Audio Response (300-3000 Hz)	+1 to -3 dB
Conduncted Spurious Emission	-57 dBm <1 GHz -47 dBm >1 GHz EN 300 086

*Availability subject to individual country's law and regulations.
Specifications are subject to change without notice and are issued for guidance only.
All specifications listed are typical. Radios meet applicable regulatory requirements.
Conforms to EC directive 89/336/EEC
Complies with EN 300 113
Contact your local Motorola Authorised Dealer to find out more about how communicating with the Professional Radio series will benefit your organisation.

MOTOROLA

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For more information contact your local Motorola Authorised Two-Way Radio Dealer.