

TWO-WAY RADIOS

GP340: The Popular Radio

The Popular Radio is the simple two-way radio solution for professionals who need to stay in contact. The GP340 can easily increase productivity by keeping users communicating, yet streamlines their radio use allowing them to concentrate on the job at hand. With the Popular Radio, communication couldn't be easier.



Operator friendly controls and features include:

- Signalling
 The radio software encompasses Private Line™ and 5-tone selective signalling.
- Channel Scan
 Allows activity on different
 communications channels to be
 monitored and answered.
- X-Pand™ Voice Compression and Low Level Expansion
 Crisp, clear and strong audio quality in virtually any noisy environment. Low level expansion allows further improvements in audio quality by reducing noise usually heard during pauses in conversation.
- Voice Operated Transmit (VOX)
 Hands free operation when used with VOX headset accessory.
- Adjustable Power Levels
 The radio output power has two settings low power extends battery life and high power allows the radio to transmit over a greater distance.
- Emergency Signalling
 Sends a help signal to a pre-defined
 person or group of people. The help
 signal can contain a pre-recorded voice
 message enabling your whereabouts or
 status to be determined immediately by
 the receiving person.
- Programmable Channel Spacing (12.5/20/25 KHz)
 Flexible and easy migration of channel spacing requirements in any situation.

- Lone Worker
 Added security and safety for
 individuals who work remotely from
 their team. The radio enters emergency
 mode if the user does not respond to
 the warning signal.
- Option Board Expandability
 You can expand the existing capabilities
 by adding one of the following option
 boards:
- Encryption for message security.
- SmarTrunk II for low cost trunking.
- Voice Storage option board provides voice recorder features allowing you to store and retrieve messages.
- Talkaround

Freedom to communicate utilising a system or dispatcher for wide area coverage, or bypass and talk directly to another unit for easy local unit-to-unit communications.

Whisper

Allows a user to speak quietly into a radio and still be heard clearly.

Call Forward

Allows calls to be forwarded to another radio user if you are unable to answer your calls personally.

Please check with your dealer for availability on specific option boards.



<u>As Dedicated As You Are</u>

Portable Two-Way Radio Specifications

General Specifications			
Channel Capacity	16		
Power Supply	Rechargeable battery 7.5v		
Dimensions: H x W x D (mm) With standard high capacity NiMH battery With ultra high capacity NiMH battery With NiCD battery With Lilon battery	Height excluding knobs 137 x 57.5 x 37.5 137 x 57.5 x 40.0 137 x 57.5 x 40.0 137 x 57.5 x 33.0		
Weight: (gm) With Standard high capacity NiMH battery With Ultra high capacity NiMH battery With NiCD battery With Lilon battery	420 500 450 350		
Average Battery Life @5/5/90 Cycle: With Standard high capacity NiMH battery With Ultra high capacity NiMH battery With NiCD battery With Lilon battery	Low Power High Power 11 hours 8 hours 14 hours 11 hours 12 hours 9 hours 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		

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	

Transmitter		
*Frequencies - Full Bandsplit	VHF: 136-174 MHz UHF: 300-350 MHz UHF1: 403-470 MHz	LB1: 29.7-42 MHz LB2: 35 - 50 MHz
Channel Spacing	12.5/20/25 kHz	12.5/20/25 kHz
Frequency Stability (-25°C to +55°C, +25° Ref.)	±2.5 ppm	±10 ppm
Power	136-174: 1-5W 300-350: 1-4W 403-470: 1-4W	1-6W
Modulation Limiting	±2.5 @ 12.5 kHz ±4.0 @ 20 kHz ±5.0 @ 25 kHz	±2.5 @ 12.5 kHz ±4.0 @ 20 kHz ±5.0 @ 25 kHz
FM Hum & Noise	-40 dB typical	-40 dB typical
Conducted/Radiated Emission	-36 dBm <1 GHz -30 dBm >1 GHz	-36 dBm <1000 MHz -30 dBm <1000 MHz
Adjacent Channel Power	-60 dB @ 12.5 kHz -70 dB @ 20/25 kHz	-60 dB @ 12.5 kHz -70 dB @ 25 kHz
Audio Response (300-3000Hz)	+1 to -3 dB	+1 to -3 dB
Audio Distortion	3%	3%

Receiver		
*Frequencies - Full Bandsplit	VHF: 136-174 MHz UHF: 300-350 MHz UHF1: 403-470 MHz	LB1: 29.7-42 MHz LB2: 35-50 MHz
Channel Spacing	12.5/20/25 kHz	12.5/20/25 kHz
Sensitivity (12 dB SINAD) EIA Sensitivity (20 dB SINAD) ETS	.25 μV typical .50 μV typical	.25 μV typical .50 μV typical
Intermodulation EIA	70 dB	70 dB
Adjacent Channel Selectivity	60 dB @ 12.5 kHz 70 dB @ 20/25 kHz	60 dB @ 12.5 kHz 70 dB @ 25 kHz
Spurious Rejection	70 dB	70 dB
Rated Audio	0.5W	0.5W
Audio Distortion @ Rated Audio	3% typical	3% typical
Hum & Noise	-40 dB @ 12.5 kHz -50 dB @ 20/25 kHz	-45 dB @ 12.5 kHz -50 dB @ 20/25 kHz
Audio Response (300-3000 Hz)	+1 to -3 dB	+1 to -3 dB
Conducted Spurious Emission	-57 dBm <1 GHz -47 dBm >1 GHz ETS 300 086	-57 dBm <1 GHz -47 dBm >1 GHz FCC Part 15

Data for +25°C unless otherwise specified

*Availability subject to individual country's law and regulations.

Specifications are subject to change without notice and are issued for guidance purposes only.

All specifications listed are typical. Radios meet applicable regulatory requirements.

Conforms to EC directive 89/336/EEC

Complies with ETS 300 113

Contact your local Authorised Motorola Dealer to find out more about how communicating with the Professional Radio series will benefit your organisation.

UK Sales Office
Middle East and Africa Headquarters:
Motorola Ltd
Jays Close, Viables Industrial Estate
Basingstoke, Hampshire RG22 4PD
United Kingdom
Tel (01256) 488200
Fax (01256) 488080

Central Europe Headquarters Eastern Europe, Turkey and Central Asia Headquarters:

Motorola GmbH Heinrich Hertz Strasse 1 65232 Taunusstein Germany

Tel. +49 6128 700 Fax+49 6128 951084



For exceptional performance, reliability and quality, Motorola Original accessories and batteries are the only options. For full details, please refer to the Professional Radio Series Accessories brochure.









Motorola, Professional Radios,
As Dedicated As You Are and
X-Pand are trademarks of Motorola Inc.

1998 Motorola, Printed in the United Kingdom http://www.mot.com