



**MOTOROLA**

TWO-WAY RADIOS

# GP344: The Small Popular Radio

The Small Popular Radio is the simple two-way radio solution for professionals who need to stay in contact. The GP344 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.*
- **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.*
- **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.*



As Dedicated As You Are

# Professional Radio

# GP344 Portable Two-Way Radio Specifications

General Specifications		
Channel Capacity	16	
Power Supply	Rechargeable battery 7.5v	
Dimensions: H x W x D (mm)	Height excluding knobs	
With standard high capacity Lilon battery	101.5 x 55.5 x 30.5	
With ultra high capacity Lilon battery	101.5 x 55.5 x 35.5	
Weight: (gm)		
With standard high capacity Lilon battery	250	
With ultra high capacity Lilon battery	270	
Average Battery Life @5/5/90 Cycle:	Low Power	High Power
With standard high capacity Lilon battery	>9 hours	>7 hours
With ultra high capacity Lilon battery	>13 hours	>10 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	

Transmitter	
*Frequencies - Full Bandsplit	VHF: 136-174 MHz UHF1: 403-470 MHz UHF2: 450-527 MHz
Channel Spacing	12.5/20/25 kHz
Frequency Stability (-25°C to +55°C, +25° Ref.)	±2.5 ppm
Power	136-174: 1-5W 403-470: 1-4W 450-527: 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 >1 GHz
Audio Response (300-3000Hz)	+1 to -3 dB
Audio Distortion	<5% typical

Portable Military Standards 810 C, D, & E						
Applicable MIL-STD	810C		810D		810E	
	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

Receiver	
*Frequencies - Full Bandsplit	VHF: 136-174 MHz UHF1: 403-470 MHz UHF2: 450-527 MHz
Channel Spacing	12.5/20/25 kHz
Sensitivity (12 dB SINAD) EIA	.35 µV typical
Intermodulation ETS	-65 dB
Adjacent Channel Selectivity	60 dB @ 12.5 kHz 70 dB @ 20/25 kHz
Spurious Rejection	70 dB
Rated Audio	0.5W
Audio Response (300-3000 Hz)	+1 to -3 dB

Data is specified for +25°C unless otherwise stated.

\*Availability subject to the laws and regulations of individual countries.

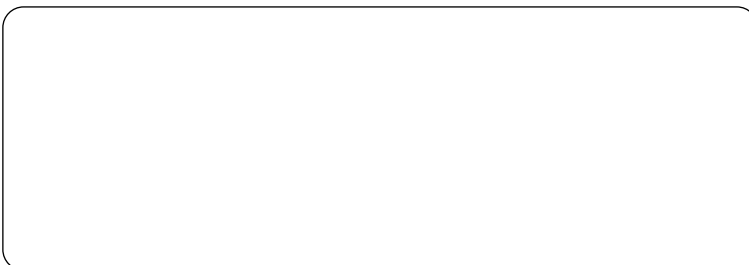
\*Availability subject to individual country's law and regulations.

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

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, Viabes Industrial Estate  
Basingstoke, Hampshire RG22 4PD  
United Kingdom  
Tel +44 (0) 1256 358211  
Fax +44 (0) 1256 469838

#### 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.



**MOTOROLA**

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>