

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.

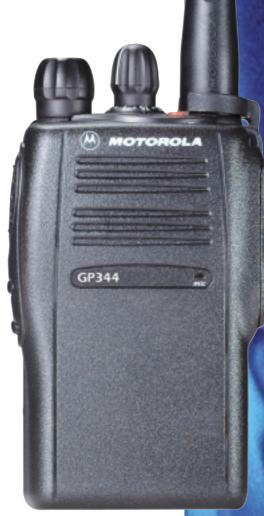
- Programmable Channel Spacing (12.5/20/25 KHz)
   Flexible and easy migration of channel spacing requirements in any situation.
- Lone Worker

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

communications.

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



## **GP344 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 Lilon battery  With ultra high capacity Lilon battery	Height excluding knobs 101.5 x 55.5 x 30.5 101.5 x 55.5 x 35.5	
Weight: (gm) With standard high capacity Lilon battery With ultra high capacity Lilon battery	250 270	
Average Battery Life @5/5/90 Cycle: With standard high capacity Lilon battery With ultra high capacity Lilon battery	Low Power >9 hours >13 hours	High Power >7 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	

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 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		

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.

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.

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<sup>\*</sup>Availability subject to individual country's law and regulations.