

GP329/GP339  
SELECT V PORTABLE  
2-WAY RADIOS



*The Power Tool  
for Contact  
& Control*



## **GP PROFESSIONAL RADIO SERIES FOR SELECT V THE COMMUNICATION SOLUTION FOR ALL YOUR NEEDS**

Effective communication is the cornerstone for success in any organisation. With Motorola's GP Professional Radio series for Select V – the GP329 and GP339 portable radios, in your communication solution, enhanced productivity and operational success are only a push of a button away. You can now enjoy instantaneous contact with your work teams, ensuring always that productivity and efficiency levels of your operations are kept high. The GP Professional Radio series for Select V is compatible with Private-Line and 5-tone Selective signalling protocols.

### **KEY FEATURES**

#### **■ CLEAN CRISP AUDIO QUALITY**

Sound quality is critical for effective communications. The GP Professional Radio series for Select V is specially equipped with Motorola's voice compression and expansion technology called X-PAND™. The X-PAND™ feature enables crisper, clearer and stronger audio quality, allowing users to continue communicating even in noisy conditions. In addition, low-level expansion enables further improvements in audio quality by reducing unwanted background noise usually heard during pauses in conversation.

#### **■ PROGRAMMABLE CHANNEL SPACING (12.5/20/25 KHZ)**

The series allows programmable channel spacing of 12.5/20/25 kHz; offering flexibility and easy migration of channel spacing requirements when the need arises.

#### **■ OPTION BOARD EXPANDABILITY**

Existing capabilities offered by the GP Professional Radio series can be expanded by including one of the following option boards:

- Man-Down option board.
- Voice Storage board that allows users to store, retrieve and delete voice messages easily.

#### **■ LITHIUM ION BATTERY OPTION**

Accompanied with the latest technology in battery chemistry, Motorola's GP series offers a Lithium Ion battery option which provides the same talk time at a lighter weight.

#### **■ LONE WORKER**

Customised to meet your specific needs, this feature provides added security and safety for individuals who work remotely from their team as well as for those who work in hazardous conditions. The radio provides continued normal operations when the buttons are pressed regularly but will sound a warning signal if there is no response after a pre-determined time lapse. Should there be no further response, the radio automatically makes an emergency call.

#### **■ WHISPER**

The radio microphone's sensitivity is increased, allowing users to speak quietly into a radio while still being heard clearly over the air.

#### **■ STUN/UNSTUN**

Provides an added security to prevent the abuse of the radio system and can only be activated by the system manager or administrator. In the event a radio is stolen or used illegally, the system administrator can send a signal to stun the radio, making it incapable for use. Conversely, the radio can be returned to operational use by sending an unstun signal or by returning the radio for reprogramming.

#### **■ MOTOR VEHICLE ADAPTOR (OPTIONAL)**

Enhances the operation of your radio, improving coverage and amplifying audio while charging the battery.

## **GP329 - YOUR EASY-TO-USE & COST EFFECTIVE SOLUTION**

The GP329 radio offers a practical two-way radio solution for professionals who need a rugged, reliable radio to stay in contact. Equipped with userfriendly features and intuitive programmable buttons for easy navigation, the GP329 increases productivity by streamlining your radio use and enabling you to concentrate on the job at hand.

With X-PAND™, the GP329 assures you of crisp, clear audio quality even in the noisiest conditions. It also offers 16 channels in addition to a basic array of signalling capabilities. With adjustable power levels, you always have control over your radio usage. Moreover, with an LED indicator and an alert to notify you when your battery power is running low, you'll never be caught with dead air, especially during mission-critical situations or emergencies.

**The GP329 radio - it's easy communication at your finger tips.**

## **GP339 - YOUR VERSATILE COMMUNICATION COMPANION**

The GP339 is vital for growing organisations due to its wide range of versatile offerings and its ability to accommodate 255 different communication channels. No matter where it is used, in the rugged environment of the construction site or in an exclusive hotel, the GP339 ensures world-class reliability and efficiency that is very much associated with Motorola's series of professional radios.

Like the GP329, the GP339 offers superb audio clarity through the X-PAND™ feature. The GP339 can store commonly-used contact lists and up to 100 individual caller-IDs and phone numbers for immediate access. Time-conscious users can also rely on programmable buttons for key features and the call timer feature for efficient management of airtime.

**The GP339 radio - adaptability at your command.**



## GP329 AND GP339 - SERVING YOUR COMMUNICATION NEEDS

### • **SIGNALLING**

#### **Private-Line**

The radio software encompasses Private-Line and 5-tone Selective signalling.

#### **Call Forward**

Incoming calls can be forwarded to another radio user enabling continued communication for the operations.

### • **CHANNEL SCAN**

Enables activity on different communications channels to be monitored and answered - eliminating the incidence of missed calls as well as simplifying the radio's operation for users of multiple communication channels.

### • **BATTERY STRENGTH INDICATOR**

For early warning on low battery strength, the GP329 is equipped with a tri-colour LED battery gauge; the GP339 has an on-screen LCD display indicator.

### • **VOICE-OPERATED TRANSMIT (VOX)**

Hands-free operation with voice activated transmission via headsets.

### • **ADJUSTABLE POWER LEVELS**

Optimises coverage and conserves battery consumption.

### • **TALKAROUND**

Freedom to communicate via a repeater for wide area coverage; or bypass a repeater and talk directly to another unit for easy local unit-to-unit communications. Ideal for maintaining continued communications in the event of system failure or maintenance.

### • **VOTING**

Enables compatibility with Multicast wide area networks.

## ADDITIONAL BENEFITS FOR GP339 - ENHANCING YOUR COMMUNICATION VERSATILITY

### • **USER INFORMATION DISPLAY**

Easy to read 14-character alpha-numeric dot matrix text display.

### • **NAME TAGGING**

Capable of assigning visual caller-ID to 8 specific users/talkgroups.

### • **CONTACT LIST**

Enables users to access up to 100 pre-programmed numbers; displayed either in alphabetic or numeric formats. A total of nine tones can be tagged to the pre-programmed numbers providing caller identification.

### • **STATUS CALLS**

Pre-defined text messages can be tagged to code digits in the Status list enabling users to send meaningful messages quickly without the need to talk. The Status list is for both incoming and outgoing calls.

### • **CALL TIMER**

Enforces the efficient use of airtime by limiting the duration of calls. Callers are given warning indications (visual and audio), prior to the call ending.

### • **DUAL TONE MULTI FREQUENCY (DTMF)**

Activated when the radio is required to operate in a radio system as well as a link to a telephone network.

### • **MENU**

Users can select functions through easy to navigate menu keys.

### • **KEYPAD LOCK/UNLOCK**

Keypad keys and menu keys can be locked to eliminate accidental key presses and to deter nonusers from tampering with the radio.

### • **BACKLIGHT**

Enhanced ease of use with backlight illuminating the radio display, keypad and menu navigation keys - programmable to be permanently switched on, off or switched on for a timed period.

**GP329 & GP339 FEATURES:**

**PRODUCT SPECIFICATIONS**

**GENERAL**

*Frequency	136 – 174 MHz/403 – 470MHz/450 – 527MHz
Channel Capacity:	GP329 is 16 Channels GP339 is 255 Channels

Power Supply:	Provided through rechargeable battery – 7.5V
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<b>DIMENSIONS</b>	H	X	W	X	D
With Standard High Capacity NiMH Battery:	137mm	x	57.5mm	x	37.5mm
With Ultra High Capacity NiMH Battery:	137mm	x	57.5mm	x	40.0mm
With NiCD Battery:	137mm	x	57.5mm	x	40.0mm
With Lilon Battery:	137mm	x	57.5mm	x	33.0mm

(Radio footprint height excluding knobs)

<b>WEIGHT</b>	GP329	GP339
With Standard High Capacity NiMH Battery:	420gm	428gm
With Ultra High Capacity NiMH Battery:	500gm	508gm
With NiCD Battery:	450gm	458gm
With Lilon Battery:	350gm	358gm

<b>AVERAGE BATTERY LIFE @ 5/5/90 CYCLE</b>	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 Lilon Battery:	11 hours	8 hours

Sealing:	Withstands rain testing per MIL STD 810C/D/E and IP54
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Shock and Vibration:	Protection provided via impact resistant housing exceeding MIL STD 810C/D/E and TIA/EA603
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Dust & Humidity:	Protection provided via environment resistant housing exceeding MIL STD 810C/D/E and TIA/EIA603
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**TRANSMITTER**

*Frequency	136–174MHz/403 – 470MHz/450 – 527MHz
Frequency Separation:	Full bandsplit
Channel spacing	12.5/20/25 kHz
Freq Stability: (-30°C to 60°C, +25°C Ref.)	±0.00025%
Power:	5W – 136-174 4W – 403-470
Modulation limiting	±2.5 @ 12.5kHz /±4.0 @ 20kHz/±5.0 @25kHz
FM Hum & Noise	-40dB
Conducted/Radiated Emission	66dBw
Modulated FCC Type	12.5kHz 11KO F3E/25kHz 16KOF3E
Audio Response (from 6dB/octave pre emphasis 300-3000Hz)	+1 to -3dB
Audio Distortion	3%

**RECEIVER**

*Frequency	136 – 174MHz/403 – 470MHz/450 – 572MHz
Frequency Separation	Full bandsplit
Sensitivity (12dB SINAD) EIA	.25µV
Intermodulation (EIA)	70dB
Adjacent Channel Selectivity	60dB @ 12.5kHz/70dB @ 25kHz
Spurious Rejection	70dB
Rated Audio	500mW
Audio Distortion	3%
Hum and Noise	-45db @ 12.5kHz/-50dB @ 25kHz
Audio Response (300 –3000hz)	+1 to -3dB
Conducted Spurious Emission	-57dBm < 1GHz/-47dBm > 1GHz/FCC Part 15

\*Availability subject to country law and regulations / Specifications subject to change without notice. All specifications shown are typical. Radios meet applicable regulatory requirements.



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GP329/GP339-002.Aust.July-02

**PORTABLE MILITARY STANDARDS 810C, D & E**

**810C**

Applicable MIL-STD	Methods	Procedures
Low Pressure	500.1	1
High Temp	501.1	1, 2
Low Temp	502.1	1
Temp. Shock	503.1	1
Solar Radiation	505.1	1
Rain	506.1	1, 2
Humidity	507.1	2
Salt Fog	509.1	1
Dust	510.1	1
Vibration	514.2	8, 10
Shock	516.2	1, 2, 5

**810D**

Applicable MIL-STD	Methods	Procedures
Low Pressure	500.2	2
High Temp	501.2	1, 2
Low Temp	502.2	1, 2
Temp. Shock	503.2	1
Solar Radiation	505.2	1
Rain	506.2	1, 2
Humidity	507.2	2, 3
Salt Fog	509.2	1
Dust	510.2	1
Vibration	514.3	1
Shock	516.3	1, 4

**810E**

Applicable MIL-STD	Methods	Procedures
Low Pressure	500.3	2
High Temp	501.3	1, 2
Low Temp	502.3	1, 2
Temp. Shock	503.3	1
Solar Radiation	505.3	1
Rain	506.3	1, 2
Humidity	507.3	2, 3
Salt Fog	509.3	1
Dust	510.3	1
Vibration	514.4	1
Shock	516.4	1, 4

**ENHANCE YOUR RADIO'S CAPABILITIES**

A comprehensive range of accessories is available so that the radios can be customised to suit your needs. Adding the proper headsets, microphones, batteries, chargers or carry cases can enhance your productivity. Motorola accessories are built with the highest quality standards and are specially engineered to assure maximum performance of your radio, no matter what profession you're in.



RMN4048A



AAHMN9052

**One-Year Warranty**

Each Motorola radio is backed by a one-year warranty on radio parts and labour on the battery, charger, antenna and belt clip.



**Accelerated Life Testing**

Motorola's Accelerated Life Testing simulates five years of hard use in real life, EIA RS-316B in Shock, Vibration, Dust, Humidity, IP54 for Sealing.



**MIL-STD 810C, D and E**

Stamp of approval from the U.S. Military for use in rough environments.



**ISO 9001 Standard**

Compliance with ISO 9001 Standard - an international quality system assurance on design, development, production, installation and servicing of a product.