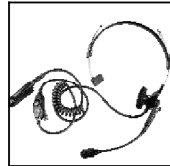
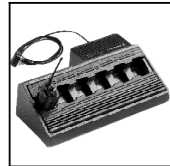


**Portable Military Standards 810 C, D, & E**

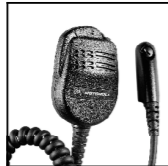
Applicable MIL-STD	810C		810D		810E	
	Methods	Procedures	Methods	Procedures	Methods	Procedures
Low Pressure	500.1	1	500.2	2	500.3	2
High Temp	501.1	1, 2	501.2	1, 2	501.3	1, 2
Low Temp	502.1	1	502.2	1, 2	502.3	1, 2
Temp. Shock	503.1	1	503.2	1	503.3	1
Solar Radiation	505.1	1	505.2	1	505.3	1
Rain	506.1	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


 Light Weight Head Set  
 AZRMN4018

 NIMH Battery &  
 Belt Clip

 Nylon Carry Case  
 HLN9701


Multi-unit Charger


 impres™ Smart  
 Energy System

 Remote Speaker  
 Microphone  
 PMMN4002

**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 the productivity of the people who use two-way radios. 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.

**Motorola: Reliability & Quality**


**ACCELERATED LIFE TESTING**  
 Stricter Motorola's Accelerated Life Testing simulating five years of hard use in real life, EIA RS-368 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.

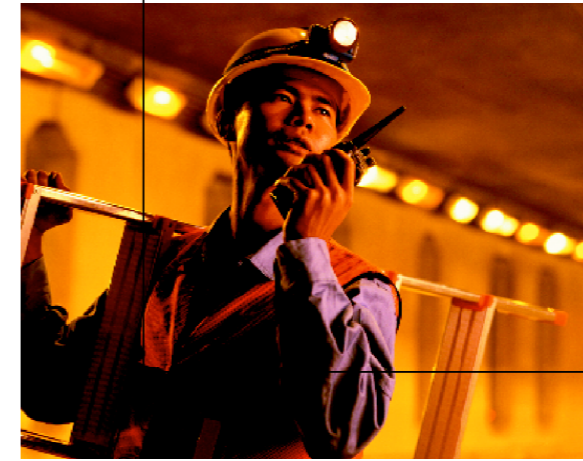
**Factory Mutual Approval**

GP338 radio units are certified by Factory Mutual Approvals as intrinsically safe for use in Division 1, Class I, II, III, Groups C,D,E,F,G and Division 2, Class I, Groups A,B,C,D, when ordered with the Factory Mutual approved battery option.



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AC3-04-005Rev.5


**THE POWER TOOL FOR CONTACT & CONTROL**
**GP338  
 A VERSATILE RADIO**


# GP338

# The GP338 Professional Radio : A Versatile Radio



The GP338 is essential for growing organizations because of its unique versatility. When necessary, the radio can easily be programmed in the field to add or delete features. So, whether it's the harsh environment of a construction site or the posh elegance of an exclusive hotel, the radio of choice is the GP338. It's the radio that grows with you.

## Flexible with Good Audio Quality — Performs Under Any Condition:

Ideal when you need:

- To communicate frequently with multiple work groups.
- A rugged radio to perform under harsh outdoor condition.
- To communicate in a high-noise environment.
- To coordinate law enforcement and emergency.
- Constant up-to-the-minute information.

## GP338 Key Features and Benefits

### X-PAND™ Audio Technology:

Motorola's special voice compression and expansion technology called X-PAND™ enables crisper, clearer and stronger audio quality, allowing you to keep communicating, even in any noisy environment.

### Battery Strength Indicator:

Easy-to-read on-screen LCD display indicator alerting user on battery strength.

### Name & Tone Tagging:

Capability to assign up to 8 unique ring tones to different users/talkgroups, and the visual caller ID display makes caller identification possible.

### Received Signal Strength Indicator:

A very user-friendly feature to display radio signal strength in the vicinity where you operate in.

### Clock and Reminder Alarm:

Set time stamp on incoming recorded messages; Or, set the alarm to remind user of important appointments.

### 14-Character Alpha Numeric Dot Matrix Display:

Clear and easy to read text display.

### Emergency Siren:

Easy-to-access, one-touch button with piercing alarm to seek help in critical situations.

### Field Retrofit Option Boards:

Easy to install, affordable add-on functionality whenever your needs arise. Option Boards are available for:

- I) DTMF Decode for in-coming calls capability.
- II) Voice Storage for recording and playing back voice messages.
- III) Mandown Alert for triggering an emergency procedure when the radio is horizontal or still for a pre-defined time. Ideal for radio users who work alone or in isolated environments.

### Battery Options:

Flexible choice of batteries:

- NiCD Battery
- High Capacity NiMH Battery
- Ultra High Capacity NiMH Battery
- Factory Mutual Approved NiCD & NiMH Batteries

### Powerful impres™ Smart Energy Solution

The impres™ Smart Energy System helps battery maintenance, predicts end-of-service life and provides real-time battery usage information.

### Enhanced Signalling Features:

The GP338 two-way radio supports these three signalling protocols:

- I) MDC1200:
  - PTT-ID
  - Voice Selective Call
  - Selective Radio Inhibit
  - Status/Messages
  - Call Alert
  - Radio Check
  - Emergency
- II) Quik Call II:
  - Call Alert
  - Voice Selective Call
- III) Dual Tone Multiple Frequency (DTMF) Signalling Encode

### Other GP338 Features:

- Channel Scan
- Time-Out-Timer
- PL / DPL
- Busy Channel Lockout

## Versatile Communication on the Go



### GP338 Specifications

#### GENERAL

*Frequency (MHz) :	29-42 / 35-50 / 136-174 / 330-400 / 403-470 / 450-527				
Channel Capacity:	128 Channels				
Power Supply:	Provided through rechargeable battery - 7.5V				
DIMENSIONS:	<b>H</b>	<b>x</b>	<b>W</b>	<b>x</b>	<b>D</b>
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)				
WEIGHT:					
With Standard High Capacity NiMH Battery:	428 gm				
With Ultra High Capacity NiMH Battery:	508 gm				
With NiCD Battery:	458 gm				
With Lilon Battery:	358 gm				
AVERAGE BATTERY LIFE @ 5/5/90 CYCLE	<b>Low Power</b>				<b>High Power</b>
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 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/EIA603				

#### TRANSMITTER

SPECIFICATION	Low Band	VHF/UHF	SPECIFICATION	Low Band	VHF/UHF
*Frequency (MHz)	29 - 42, 35 - 42	136-174 / 330-400 / 403-470 / 450-527	*Frequency (MHz)	29 - 42, 35 - 42	136-174 / 330-400 / 403-470 / 450-527
Frequency separation	Full bandsplit#		Frequency separation	Full bandsplit	
Channel spacing	12.5 / 20 / 25kHz		Sensitivity (12dB SINAD) EIA	.30µV	.25µV
Freq Stability:(-30°C to 60°C,+25°C Ref.)	± 0.0010%		Intermodulation (EIA)	65dB	70dB
Power	6W	5W (VHF) 4W (UHF)	Adjacent Channel Selectivity	60dB @12.5, 70dB @ 25kHz	60dB @ 12.5kHz, 70dB @ 25kHz
Modulation limiting	±2.5 @ 12.5kHz, ±4.0 @ 20kHz, ±5.0 @ 25kHz		Spurious Rejection	70dB	
FM Hum & Noise	-40dB		Rated Audio	500 mW	
Conducted/Radiated Emission	-36 dBm < 1 GHz / -30 dBm > 1 GHz		Audio Distortion	3%	
Modulation FCC Type	12.5 kHz 11K0 F3E / 25 kHz 16K0F3E		Hum and Noise	-45dB @ 12.5kHz, -50dB @ 25kHz	
Audio Response (from 6 dB/octave pre-emphasis 300-3000Hz)	+1 to -3dB		Audio Response (300-3000Hz)	+1 to -3dB	
Audio Distortion	3%		Conducted Spurious Emission	-57dBm < 1GHz, -47dBm > 1GHz / FCC Part 15	

\* Availability subject to country law and regulations.  
Radios meet applicable regulatory requirements.  
Specifications subject to change without notice.  
Specifications are not representative of all radios and may vary in different radios.

# Not applicable to Low Band