

GP Series

The Power Tool for Contact & Control GP328 & GP338





GP338 – The Versatile Radio for those who need ...

- To communicate frequently with multiple work groups.
- To be on the move outdoor most of the time.
- To communicate in a high-noise environment.
- To co-ordinate law enforcement and emergency. ٠
- Constant up-to-the-minute information.

The Professional Radio Series Signalling Features :

The Professional Series supports these Signalling systems:

MDC1200:

- PTT-ID: Every time the PTT button is pressed, a unique ID is sent. This allows the dispatcher to identify which radio is transmitting.
- · Call Alert: If your call to a radio is unanswered, you can leave a page for that person. The radio emits an alert tone until a response is made.

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.



Light Weight Headset **AZRMN4018**



NiMH Battery **PMNN4008** Belt Clip HLN9714 (order separately)



Carry Case HLN9701



Multi-Unit Charger WPLN4187

- Voice Selective Call: The radio receives an individual or group voice message with an alert to indicate that it is a selective call.
- Radio Check: Auto check if radio is operating or within range.
- Selective Radio Inhibit: Radio can be disabled over the air from control. system preventing unauthorised usage of stolen or lost radio.

II) Quick Call II:

- Call Alert: Voiceless paging with continuous alert tones that alert user on incoming calls.
- Voice Selective Call: Paging alert followed by a voice message.

III) Dual Tone Multiple Frequency (DTMF) Signalling Encode:

- Easy access to a land-line telephone network or to operate remote control devices.
- GP328 non-keypad model does not offer DTMF encode feature.

(US Cord) WPLN4188 (UK Cord) WPLN4189 (Euro Cord)



Single Unit Charger **PMTN4024** (US Plug) PMTN4025 (Euro Plug) PMTN4026 (UK Plug)

Remote Speaker Microphone PMMN4021

GP328 & GP338 Specifications

GENERAL	-	LB,	VHF,	UHF	
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GENERAL - ED, VIII, OIII					
*Frequency: (MHz)	29 - 42 / 35	5 - 50 / 136	i - 174 / 330 - 400	/ 403 - 4	70 / 450 - 527
Channel Capacity:	GP328 is 1	6 Channels	s	GP33	38 is 128 Channels
Power Supply:	Provided th	nrough rect	hargeable battery	- 7.5V	
DIMENSIONS:	Н	х	W	х	D (Radio footprint height excluding knobs)
With Standard High Capacity NiMH Battery:	137mm	×	57.5mm	×	37.5mm
With Ultra High Capacity NiMH Battery:	137mm	×	57.5mm	×	40.0mm
With NiCD Battery:	137mm	×	57.5mm	×	40.0mm -
With Lilon Battery:	137mm	×	57.5mm	×	33.0mm
WEIGHT:	GP328		GP338		
With Standard High Capacity NiMH Battery:	420 gm		428 gm		
With Ultra High Capacity NiMH Battery:	500 gm		508 gm		
With NiCD Battery:	450 gm		458 gm		
With Lilon Battery:	350 gm		358 gm		
AVERAGE BATTERY LIFE @ 5/5/90 CYCLE	Low Power	r,	High Powe	r	
With Standard High Capacity NiMH Battery:	11 hours		8 hours		
With Ultra High Capacity NiMH Battery:	14 hours		11hours		
With NiCD Battery:	12 hours		9 hours		
With Lilon Battery:	11 hours		8 hours		
Sealing:	Withstands	s rain testi	ng per MIL-STD 8	10 C / D	/ E and IP54
Shock and Vibration:	Protection	provided v	ia impact resista	nt housin	ng exceeding MIL-STD 810-C/ D / E and TIA/EIA 603
Dust and Humidity:	Protection	provided v	ia environment	resistant	housing exceeding MIL-STD 810 C / D / E and TIA/EIA 603

TRANSMITTER		RECEIVER	
SPECIFICATION	VHF / UHF	SPECIFICATION	VHF / UHF
*Frequency (MHz)	136 -174 / 330 - 400 / 403 -470 / 450-527	*Frequency (MHz)	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	.25mV
Freq Stability:(-30oC to 60oC,+25oCRef.)	+/- 0.00025%	Intermodulation(EIA)	70dB
Power	5W (VHF) 4W (UHF)	Adjacent Channel Selectivity	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	-36dBm < 1GHz / -30dBm > 1GHz	Audio Distortion	3%
Modulation FCC Type	12.5kHz 11K0F3E	Hum and Noise	-45dB @ 12.5kHz, -50dB @ 25kHz
	25kHz 16K0F3E	Audio Response(300-3000Hz)	+1°to -3dB
Audio Response (from 6 dB/octave pre-emphasis 300-3000Hz)	+1 to -3dB	Conducted Spurious Emission	-57dBm < 1GHz, -47dBm > 1Ghz, FCC Part 15
Audio Distortion	3%		

TRANSMITTER	
*Frequency (MHz)	29 - 42, 35 -50
Channel Spacing	12.5 / 20 / 25kHz
Freq. Stability (-30oC to 60oC, +25oCRef.)	±0.0010%
Power	6W
Modulation limiting	±2.5@ 12.5kHz, ±5.0 @ 20kHz, ±5.0 @ 25KHz
FM Hum & Noise	-40dB
Conducted/Radiated Emission	-36dBm < 1 GHz / -30dBm > 1 GHz
Audio Response (from 6 dB/octave	+1 to -3dB
pre-emphasis 300-3000Hz)	
Audio Distortion	3%
RECEIVER	
Sensitivity (12 dB SINAD)	.30mV
Intermodulation	65dB
Adjacent Channel Selectivity	60dB @ 12.5, 70dB @ 25kHz
Spurious Rejection	70dB
Rated Audio	500 mW
Audio Distortion @ Rated Audio	3%
Hum and Noise	-45dB @ 12.5kHz, -50dB @ 25kHz
Modulation FCC Type	25kHz 16K0F3E
Audio Response (300 - 3000 Hz)	+1 to -3dB
Conducted Spurious Emission	-57dBm < 1GHz, -47dBm > 1GHz, FCC Part 15

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

Features	GP328	GP338				
X-PAND™ Audio Technology	Motorola's voice compression and expansion technolo	gy that produces crisper, clearer and stronger audio				
	quality, allowing you to keep communicating, even in a					
Emergency Siren	Easy to access, one-touch button with piercing alarm to seek help in critical situation.					
Switchable RF Power Level	Optimise coverage and conserve battery consumption					
Programmable Channel Spacing	Flexible and easy migration of channel spacing require					
of 12.5 / 25 kHz mode						
Repeater/Talkaround Enable/Disable	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.					
Internal Voice Operated Transmission(VOX)	Hands-free operation with voice activated transmission					
Flexible Battery Options	Choice of batteries: Standard High Capacity and Ultra H					
	lightweight Lithium Ion battery					
Tight / Normal Squelch	Flexibility to switch to tight squelch to filter out excessive noise; or, normal squelch for normal coverage.					
Field Retrofit Option Boards	Easy to install, affordable add-on functionality whenever					
	i) DTMF Decode for in-coming calls capability.					
	ii) Voice Storage for recording and playing back voice messages.					
	GP328	GP338				
Channels						
Channels	Maximum of 16 channels to organise work groups with ease and efficiency.	Maximum of 128 channels to organise work groups				
Patton, Strangth Indiantas		with ease and efficiency.				
Battery Strength Indicator	Tri-colour LED Battery Gauge with early warning on	Easy to read on-screen LCD display indicator alerting				
Name & Tene Teneire	low battery strength.	user on low battery strength.				
Name & Tone Tagging	Tone tagging only with capability to assign up to 8	Name and tone tagging with capability to assign 8				
	different ringing tones to 8 specific users/talkgroups.	different ringing tones and visual caller ID to 8 specific users/talkgroups.				
14-Characher Alpha Numeric	Not Available	Easy to read dot matrix text display.				
Display Monitor						
Received Signal Strength Indicator	Not Available	Easy to read on-screen display indicator alert user on				
		signal strength.				
Clock and Reminder Alarm	Not Available	Set time stamp on incoming recorded messages;				
		Or, set the alarm to remind of important appointments				
Menu Keys	Not Available	Select functions through easy to navigate menu keys.				
Other GP328 & GP338 Features:	Channel Scan	Channel Scan				
	Time-Out-Timer	Time-Out-Timer				
	PL/DPL	PL/DPL				
	Busy Channel Lockout	Busy Channel Lockout				

Portable Military Standards 810 C, D, & E

810C		OC	810	D	810E		
Applicable MIL-STD	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	

Factory Mutual Approval

GP328 & 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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Motorola: Reliability & Quality



Accelerated Life Testing

Stringent Motorola Accelerated Life Testing simulating 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.



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