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 Temp	500.1	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

Factory Mutual has given GP328 an intrinsically safe rating for use in Classes I, II, and III, Division 1, Groups C, D, E, F and G, as well as non-incendive use in Class I, Division 2, Groups A, B, C and D on models ordered with the Factory Mutual option.

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.



Motorola Electronics Pte Ltd

Motorola Innovation Centre, Level 7, Ang Mo Kio Street 64, Ang Mo Kio Industrial Park 3, Singapore 569088 www.motorola.com/governmentandenterprise

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GP328 PORTABLE RADIO - A PRACTICAL RADIO

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 in any noisy environment.

16 Channels

Maximum of 16 channels to organise work groups with ease and efficiency.

Tone Tagging

Assign 8 different ringing tones to 8 specific users/talkgroups making audio caller identification to these 8 groups possible.

LED Battery Gauge

Tri-colour LED to indicate battery strength, avoiding failed communication with early warning on low battery strength.

Emergency Siren

or Contact & Contro

VOC

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

Switchable RF Power Level Optimize coverage and conserve battery consumption.

Field Retrofit Option Boards

Easy to install, affordable addon 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 predefined time. Ideal for radio users who work alone or in isolated environments

Programmable Channel Spacing Of 12.5/25 kHz Mode

Flexible and easy migration of channel spacing requirements in any situation.

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)

For hands-free operation, activate this option by speaking with the optional headsets.

Tight/Normal Squelch

Flexibility to switch to tight squelch to filter out excessive noise; or, normal squelch for normal coverage.



The GP328 is the two-way radio solution for professionals who need to stay in contact but don't require extra features. This practical radio can easily increase productivity by keeping users communicating, yet streamlines their radio use-allowing them to concentrate on the job at hand. With the GP328, communication couldn't be easier.

Easy To Use, Lightweight Yet Rugged To Suit Your Every Need

Ideal when you need:

- Wide range coverage within the workplace.
- Simple-to-operate two-way radio.
- To contact people who are mobile.
- To make several calls to repeat the same message.
- To manage a facility or more than one building.



GP328 Specifications

General Specifications							
*Frequency (MHz):	29 - 42 / 35 -50 / 136 -174 / 330 - 400 / 403 - 470 / 450 - 527						
Channel Capacity:	16 Channels						
Power Supply:	Provided through rechargeable battery - 7.5V						
DIMENSIONS:	Нх	¢	W	х	D		
With Standard High Capacity NiMH Battery:	137mm x	<	57.5mm	х	37.5mm		
With Ultra High Capacity NiMH Battery:	137mm x	<	57.5mm	х	40.0mm		
With NiCD Battery:	137mm x	<	57.5mm	х	40.0mm		
With Lilon Battery:	137mm x	<	57.5mm	х	33.0mm		
	(Radio footprint height excluding knobs)						
WEIGHT:							
With Standard High Capacity NiMH Battery:	420 gm						
With Ultra High Capacity NiMH Battery:	500 gm						
With NiCD Battery:	450 gm						
With Lilon Battery:	350 gm						
AVERAGE BATTERY LIFE @ 5/5/90 CYCLE	Low Power		High Power				
With Standard High Capacity NiMH Battery:	11 hours	11 hours					
With Ultra High Capacity NiMH Battery:	14 hours		11 hours				
With NiCD Battery:	12 hours	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/EIA 603						

TRANSMITTER			
Specifications	Low Band	VHF/UHF	
*Frequency (MHz)	29 - 42 / 35 - 50	136 - 174 / 330 - 400 / 403 - 470 / 450 - 527	
Frequency separation	Full I	pandsplit	
Channel spacing	12.5/20/25kHz		
Freq Stability:(-30°C to 60°C,+25°CRef.)	+/- 0.0010%	+/- 0.00025%	
Power	6W	5W – 136 -174 MHz	
		4W – 330 - 400 / 403 - 470 / 450 - 527 MHz	
Modulation limiting	±2.5 @ 12.5kHz	±2.5 @ 12.5kHz	
	±5.0 @ 20kHz/25kHz	±4.0 @ 20kHhz	
		±5.0 @ 25kHz	
FM Hum & Noise	-	40dB	
Conducted/Radiated Emission	-36dBm < 1GHz / -30dBm > 1GHz		
Modulation FCC Type	12.5 kHz 11K0	F3E / 25 kHz 16K0F3E	
Audio Response (from 6 dB/ octave pre-emphasi	s 300-3000Hz) +1	to -3dB	
Audio Distortion	ortion 3%		

RECEIVER			
Specifications	Low Band	VHF/UHF	
*Frequency (MHz)	29 -42 / 35 -50	136 -174 / 330 - 400 / 403 - 470 / 450 -527	
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	500 mW		
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.

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.

ENHANCED SIGNALLING FEATURES

The GP328 two-way radio supports these three Signalling protocols:

- I) MDC1200 Signalling:
- PTT-ID (encode) Identifies your outgoing calls on other users' radios
- Selective Call (decode) Lets you receive a specific group or individual call
- Call Alert (decode) Notifies you of incoming calls
- Radio Check (decode) Tell others if your radio is activated or within range
- Emergency (encode) Sounds an alarm or alerts dispatcher in urgent situations
- II) Quik Call II Signalling:
- Call Alert
- Voice Selective Call

III) Dual Tone Multiple Frequency (DTMF)Signalling Encode:GP328 optional retrofit keypad model supportsDTMF encode features

OTHER GP328 FEATURES

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

ACCESSORIES SOLUTION

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.

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.



Light Weight Head Set AZRMN4018



NiMH Battery & Belt Clip PMNN4008



Carry Case HLN9701



Multi-unit Charger



impres™ Smart Energy System



Remote Speaker Microphone PMMN4002