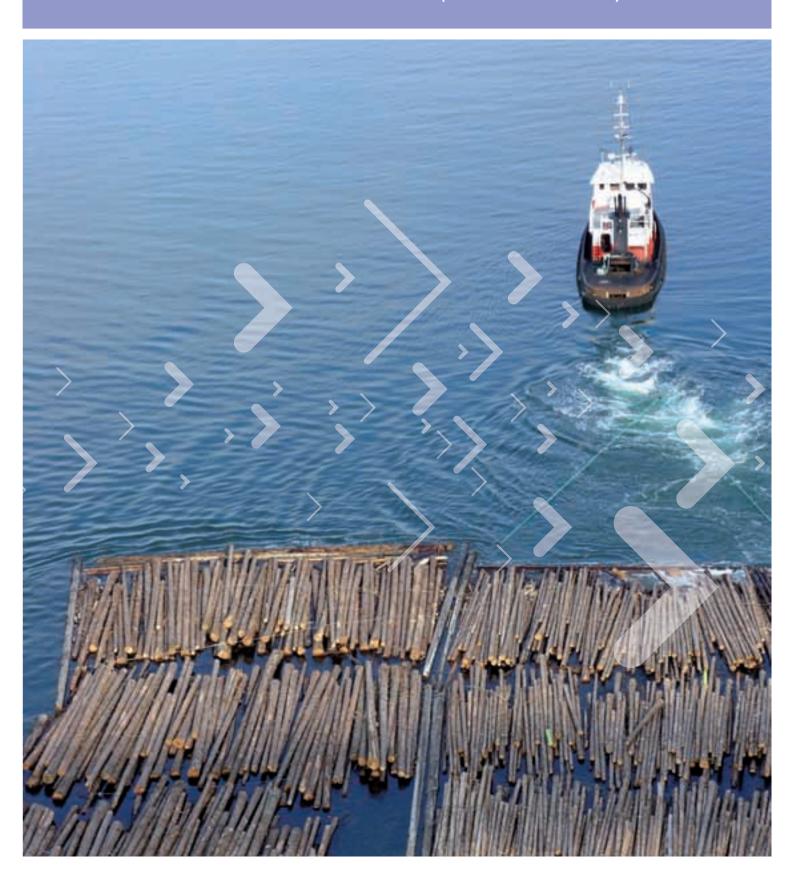


GP-R Series

Professional Submersible Compact Two-Way Radios



Trusted and proven product platform

For over 75 years, Motorola has been a leader in radio communications. From the earliest walkie-talkies, to the first words transmitted from the moon, and currently, to outfitting today's busy professionals with the most efficient means of radio communications – Motorola has always set the standard, which the industry follows. Our innovative thinking has resulted in many of the wireless communication tools available on the market today.

complement this philosophy. They are designed and manufactured to meet IP67 specifications for total protection against water and dust intrusion. A cost-effective, three-tier communications solution essionals operating in hazardous and le environments, these discreet, uggedised, water and dust resistant e designed with different integral feature sets to suit various operating scenarios

Motorola's Professional Submersible Series radios Most importantly, professionals operating in harsh environments want reliable high quality voice communications. Designed to operate in the harshest of outdoor environments Motorola's GP-R Series radios comprise three models that bring practicality to an organisation's two-way communications solution by keeping users in contact when working in tough environments and allowing them to concentrate on their jobs.

GP-R Compact Professional Submersible Series Radios

Submersible, Lightweight, Compact

conventional communications devices. In such conditions, personal and group safety is a prime

teams and production the GP-R Series fulfils the need.



Compact, discrete non-





Compact, limited keypad with

Compact, full keypad with



General Specifications								
	GP344R, GP644R	GP366R, GP666R	GP388R, GP688R					
Channel Capacity Private Line & 5-tone MPT	16 System Dependent	255 System Dependent	255 System Dependent					
Dimensions: H x W x D (mm) Height excluding knobs	101.5 x 56.5 x 37.0	101.5 x 56.5 x 39.0	101.5 x 56.5 x 39.0					
Weight: (gm) With high capacity Lilon battery (both standard and FM battery)	305	320	320					
Power Supply	Rechargeable battery 7.5v							
Average Battery Life @5/5/90 Cycle: With high capacity Lilon battery (both standard and FM battery)	Low Power >13 hours	9	High Power >10 hours					
Average Battery Life @10/10/80 Cycle: With high capacity Lilon battery (both standard and FM battery)	Low Power >8 hours		High Power >6.5 hours					
Sealing:	Withstands rain testing per MIL STD 810 C/D/E/F and IP67							
Shock and Vibration:	Protection provided via impact resistant housing exceeding MIL STD 810-C/D/E/F and TIA/EIA 603							
Dust and Humidity:	Protection provided via environment resistant housing exceeding MIL STD 810 C/D/E/F and TIA/EIA 603							

Transmitter						
*Frequencies - Full Bandsplit Private Line & 5-tone Private Line & 5-tone and MPT	VHF: 136-174 MHz UHF2: 450-527 MHz UHF1: 403-470 MHz					
Channel Spacing	12.5 kHz / 20 kHz / 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					
Conducted/Radiated Emission	-36 dBm <1 GHz -30 dBm >1 GHz - 4 GHz					
Audio Response (300-3000Hz)	+1 to -3 dB					

Receiver						
*Frequencies - Full Bandsplit Private Line & 5-tone Private Line & 5-tone and MPT	VHF: 136-174 MHz UHF2: 450-527 MHz UHF1: 403-470 MHz					
Channel Spacing	12.5 kHz / 20 kHz / 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 (300-3000Hz)	+1 to -3 dB					

Data is specified for +25°C unless otherwise stated.
*Availability subject to the laws and regulations of individual countries.

Portable Military Standards 810 C, D, E & F										
Applicable MIL-STD	81 Methods	0C Procedures	81 Methods	0D Procedures	81 Methods	0E Procedures	81 Methods	0F Procedures		
Low Pressure	500.1	1	500.2	2	500.3	2	500.4	2		
High Temperature	501.1	1,2	501.2	1,2	501.3	1,2	501.4	1,2		
Low Temperature	502.1	1	502.2	1,2	502.3	1,2	502.4	1,2		
Temp. Shock	503.1	1	503.2	1	503.3	1	503.4	1		
Solar Radiation	505.1	1	505.2	1	505.3	1	505.4	1		
Rain	506.1	1,2	506.2	1,2	506.3	1,2	506.4	1,3		
Humidity	507.1	2	507.2	2,3	507.3	2,3	507.4	-		
Salt Fog	509.1	1	509.2	1	509.3	1	509.4	-		
Dust	510.1	1	510.2	1	510.3	1	510.4	1		
Vibration	514.2	8,10	514.3	1	514.4	1	514.5	1		
Shock	516.2	1,2,5	516.3	1,4	516.4	1,4	516.5	1,4		



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Conforms to R&TTE directive 1999/05/EC. Radio meets applicable regulatory requirements. Specifications are subject to change without notice and are issued for guidance purposes only. All specifications listed are typical. Radios meet applicable regulatory requirements. Apex Radio Systems Ltd. 102 Tantobie Road Denton Burn Newcastle upon Tyne NE15 7DQ

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