

**Applicable MIL-STD-810C/D/E/F**

Applicable MIL-STD	810C		810D		810E		810F	
	Methods	Procedures	Methods	Procedures	Methods	Procedures	Methods	Procedures
Low Pressure	500.1	1	500.2	1,2	500.3	1,2	500.4	1
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	1,2
Rain	506.1	2	506.2	2	506.3	1,2	506.4	1,2
Humidity	507.1	2	507.2	2,3	507.3	2,3	507.4	1
Salt Fog	509.1	1	509.2	1	509.3	1	509.4	1
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

**General**

Frequency Range(MHz)	VHF: 136-174 Mhz UHF: 400-470 MHz
Channel Capacity	128
Channel Spacing (KHz)	25/20/12.5 KHz
Operating Voltage (V)	7.5 v
Battery	1750mAh (Li-ion)
Battery Life (5-5-90 Duty Cycle) 1750mAh Li-Ion battery	Greater than 14 Hours
Frequency Stability(ppm)	+/-2.5 ppm
Operating Temperature (F)	-22 ~ +140 F
Antenna Impedance (ohms)	50 ohms
Dimensions (HxWxD) (with battery, without antenna) (in)	4.7 x 2.2 x 1.4 in
Weight (with antenna & battery) (oz)	14.6 oz

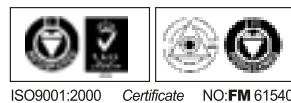
**Transmitter**

RF Power Output	5/2/1 Watt (VHF) 4/2/1 Watt (UHF)
Modulation	F3E
Spurious and Harmonics	-36dBm<1GHz -30dBm>1GHz
FM Noise	-40/34dB
Audio Distortion	<5 %

*All Specifications are tested according to TIA/EIA-603, and subject to change without notice due to continuous development.*

**Receiver**

Sensitivity	0.25/0.28µV
Selectivity	-70/60dB
Intermodulation	-60dB
Spurious Response Rejection	-70dB
S/N	-45/40dB
Rated Audio Power Output	1W
Rated Audio Distortion	<5%



Your Local Dealer



[www.relm.com](http://www.relm.com)

RELM retains the right to change the product design and specification.

A Whole New RELM Of Possibilities

# RP6500



Makers of Relm and BK Radio

## Professional Two-way Radio



- Rain Water Protection Class IP54
- Optimum Audio
- Voice Scrambler Encryption
- Wide Frequency Coverage

The RP6500 Portable Radio is uniquely versatile and is an essential tool for growing organizations. The radio offers a full menu of advanced signaling features including paging or calling selective radios or groups. Users can also store information such as phone numbers, call lists and radio ID's for easy access. With RELM's latest technology, audio clarity is superb even in noisy surroundings, and the large LCD display is extremely helpful in wide communication networks and critical situations. The RP6500 is the radio of choice.

# RP6500

## Features

### 128 Channels

Up to 128 memory channels are available.

### Programmable Keys

Up to 7 programmable keys are available for most functions on the RP6500, permitting a customized fit for specific users.

### Tough and Water Resistant

Built tough to take rough treatment, the RP6500 has passed the IP54 and MIL-STD 810 C/D/E driving rain and water resistance tests. It also meets or exceeds 11 other MIL-STD 810 C/D/E environmental standards.

### Multiple Signaling and Flexible Selective Call

Use the built-in CTCSS, DCS, DTMF, 2-Tone and 5-Tone capability to set up user talk groups and nighttime channels for paging. In addition, special tone code for group and individual calls and other features are available to support flexible yet precise, selective calling operations.



## Professional Two-way Radio



RELM Wireless Corporation  
7100 Technology Drive  
West Melbourne, FL 32904  
800.821.2900  
www.relm.com

## Main Features

### Enhanced 2-tone or 5-tone

Up to 16 2-Tone/5-Tone codes can be decoded on a channel. When a matched tone is received, various items such as beep, answer back, stun, and LED blink could be programmed for each code. Even missed call notice and call transfer are optional for the upgraded version.

### Versatile Scanning Features

Custom Scan Template for each channel allows up to 16 different scan lists for convenient administration in a large work group. Auto-Scan and Vote features (optional) are helpful for monitoring on multiple channels. The RP6500 series offers both Standard and Priority Scan modes. Talk Back allows immediate response to a received call without having to manually search or change channels.

### Optimum Audio

The equipped large speaker offers a full watt of audio output which transmits loud and clear audio.

### Audio Componder

The built-in audio compander reduces noise and provides clear reception even in narrow band use.

### Voice Scrambler Encryption

A voice-inversion scrambler provides basic communications security against casual eavesdropping.

### Wide Range Frequency Coverage

The RP6500 series covers a wide frequency range with one version (136-174, 400-470 Mhz). Different channel spacing (25, 20, 12.5 kHz) and TX Power (high, mid, and low) are programmable per channel.



## Other Features

- PC Programmable and Tunable
- Field Programmable
- Embedded Radio Information
- Power-On Self-Inspection
- Programming Password Protection
- Personalized Alert Tone and Volume
- Keypad Lockout and Backlight
- BCLO (Busy Channel Lock-Out)

## Recommended Applications

- Police Departments
- Hospitality
- Fire Departments
- Property Management
- Ports
- Warehousing

## Accessories

Standard Accessories	Antenna Li-Ion Battery (1750mAh)	Rapid Rate Charger Standard Switching Power Supply	Belt Clip Strap
----------------------	-------------------------------------	---	--------------------

### Optional Accessories



Li-Ion Battery (2000mah)



Rapid Rate Multi-Unit Charger For Li-Ion/nI-mh Batteries



Light-Weight, Behind-The-Head Earpiece With In-Line PTT & VOX

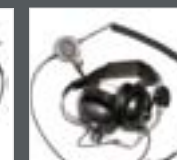
Light-Weight, Single-Muff Headset With In-Line PTT & VOX



Remote Speaker Microphone



Heavy Weight High-Quality Noise-Cancelling & VOX Headset



Behind-The-Head, Noise-Cancelling & VOX Headset



Leather Carrying Case



Earbud With In-Line PTT & VOX



Earpiece With On-Mic PTT & VOX & Transparent Acoustic Tube



D-Earset With In-Line PTT & Microphone & VOX

D-Earset With Boom Microphone & In-Line PTT & VOX