

# RP4200

## Portable Radio

With its large capacity Li-Polymer battery, the new RP4200 from RELM/BK Radio will fit your need for extended communication time.

A gold-aluminum alloy cover results in better heat dissipation and the hard rubber push-to-talk button insures maximum durability and easy, convenient operation. These and other new technologies improve performance and make the RP4200 a superior two-way radio.

Channel Annunciation and Emergency Alarm are two of our customer's favorite features. The RP4200 features a compact and elegant lightweight design, waterproof structure and crisp clear audio.

The RP4200 is an ideal communication tool for department stores, restaurants, hotels, construction companies, etc.



7100 Technology Drive  
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### Specifications

#### General

Frequency range	420~470 MHz,
Channel capacity	16(15+S)
Channel spacing	25 kHz (W)/12.5 kHz (N)
Operating temperature	-25C ~+55C
Antenna impedance	50 Ohm
Microphone impedance	2.2k Ohm
Battery (Standard)	Li-poly 1200 mAh, 7.4V
Dimension (WxHxD) mm	56.5 x 102 x 29.5
Weight (with battery and antenna)	235g

#### Receiver

Sensitivity (12dB SINAD)	0.3uV
Adjacent channel selectivity	70dB (W)/60dB (N)
Intermodulation reject ratio	65dB
AF output power	500mW @4 W
Distortion	< 10%

#### Transmitter

RF power	4W
Modulation type	16KOF3E (W)/11KOF3E (N)
Spurious and harmonics	-70 dB
Residential FM (300~3000Hz)	-45dB (W)-40dB (N)
FM distortion (300~3000Hz)	5%
Frequency stability	+/- 2.5ppm
Maximum frequency deviation	5 kHz (W)/2.5 kHz (N)

### Features

#### Li-Polymer Battery (1200mAh)

The standard Lithium-Polymer battery produces 1200 milliamp hours of DC power resulting in prolonged operating time between charges.

#### Wider Band Coverage

The 50 MHz operating bandwidth provides extend coverage ov the UHF frequency band. Programmable by channel to operate in both narrowband and wideband applications.



### Professional Two-Way Communications from RELM/BK

#### Programmable Squelch Level

PC adjustable Squelch level.

#### CTCSS/DCS

To prevent unwanted conversations on the same frequency. CTCSS/DCS encoder and decoder can prevent interference on the same frequency from other communication groups.

#### Auto Power Saving

To minimize power consumption and extend battery life, auto power-saving is activated 10 seconds after the radio enters standby mode.

#### Channel Annunciation

As the the channel select knob is changed the RP4200 lets the operator know which channel is active by a verbal announcement. Perfect for low-light conditions.

#### Emergency Signaling

When pressing the emergency call button a loud alarm sounds to alert your partners of a situation.

#### Low Battery Alert

When the battery power is low, the working status indicator flashes red, reminding you to recharge or replace the battery.

#### Selectable Channel Spacing

Programmable for 25kHz or 12.5kHz channel spacing the RP4200 conforms with narrowband and wideband requirements

#### Waterproof and Rain-resistant

Waterproof and rain-resistant construction enables you to use the radio in severe environments.

#### 16 Channels (15+Scan)

15 communication channels and 1 scan channel provide flexible channel assignments among different user groups.

#### Multiple Scanning

Scan channel is convenient for the team leader to monitor on-site operations. The scanning mode and priority scanning are programmable.

#### Time Out Timer

When TOT is activated and the transmission exceeds the preset time limit, the radio will stop transmitting and emit and audible warning tone. TOT aids in preventing radio damage caused by extensive transmissions.

#### Busy Channel Lockout(BCL)

BCL is used to prevent interference with the any on-going conversation on your frequency. With BCL enabled the RP4200 will not transmit while the channel is being used by another radio operator.

#### Monitor

Pressing the monitor key opens the radios audio circuit to monitor the current channel for activity.

#### PC Programmable

With the optional programming cable, RP4200 radio parameters can be configured with PC software.

#### Data Cloning

Quickly set the RP4200 parameters by cloning data from another radio with the supplied data cable.



**RELM BK**  
RADIO