

# RELM/BK RP4200 Portable Two-Way Radio

## Small, light, compact, easy – yet full power and performance

- 16 channels (15 plus scan) provide flexible channel assignments among different user groups
- Palm/pocket size, light-weight – only 8.3 oz. including battery
- 4-watt RF output, full power
- 420-470 MHz UHF frequency range, programmable by channel to operate in both narrowband and wideband applications
- PC-programmable
- Standard 7.4-Volt Lithium-Polymer battery extends operating time between charges/changes
- Auto Power-Saving is activated 10 seconds after radio begins standby mode for further battery power conservation
- Scan channel makes it easy and simple for team leaders to monitor operations – and scanning mode and priority scanning are both programmable
- Gold-aluminum alloy cover keeps radio cooler
- Waterproof construction makes radio safe to use in severe weather conditions
- Audio Annunciation lets the operator know which channel is active via an audio announcement – ideal for low-light conditions
- One-button emergency alarm alerts your partners to an emergency situation
- CTCSS/DCS encoder/decoder prevents interference by others on the frequency you are using
- Busy-Channel Lockout prevents you from interfering with ongoing conversations on your frequency
- Time-Out Timer lets you set time limits after which radio will stop transmitting, preventing possible damage to radio



RELM/BK  
RADIO

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## Palm/pocket size radio for clear and reliable communications

The RELM/BK RP4200 UHF Portable Radio is small enough to fit in the palm of your hand, weighs just over 8 ounces, yet is designed to provide powerful, dependable performance in a host of demanding applications such as hotels, campuses, malls, security operations, resorts and construction sites.

Even with its many features, the RELM/BK RP4200 portable is always easy to use. The Audio Annunciation feature tells the user which channel is active with an audio announcement, which is especially useful in low-light conditions.

State-of-the-science technology delivers crisp, clear, strong audio quality even under noisy conditions. Built-in CTCSS/DCS tone-squelch options help differentiate talk groups and minimize undesired audio traffic. And Busy-Channel Lockout prevents radio users from transmitting on a channel in use by another party.

The RP4200 has the ability to clone group information from one radio to another using the optional cloning cable. So you can reprogram channel data on your radio in just a matter of a couple of minutes.

## Specifications – RELM/BK RP4200 Portable Radio

### General

Frequency range \_\_\_\_\_ 420-470 MHz UHF  
Channel capacity \_\_\_\_\_ 16 (15 plus scan)  
Channel spacing \_\_\_\_\_ 25 kHz wideband  
\_\_\_\_\_ 12.5 kHz narrowband  
Operating temperature \_\_\_\_\_ -25°C to +55°C  
Antenna impedance \_\_\_\_\_ 50 Ohm  
Microphone impedance \_\_\_\_\_ 2.2k Ohm  
Battery \_\_\_\_\_ Lithium-Polymer 1200 mAh, 7.4 V  
Dimensions (mm) \_\_\_\_\_ 56.5 x 102 x 29.5  
Weight (incl. battery) \_\_\_\_\_ 235 g

### Transmitter

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

### Receiver

Sensitivity \_\_\_\_\_ 0.3 uV  
Adjacent channel selectivity \_\_\_\_\_ 70 dB wideband  
\_\_\_\_\_ 60 dB narrowband  
Intermodulation reject ratio \_\_\_\_\_ 65 dB  
AF output power \_\_\_\_\_ 500 mW @ 4 W  
Distortion \_\_\_\_\_ <10%

Specifications subject to change without notice.  
Measurements made in accordance with applicable  
TIA/EIA-603-A standards.



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