**MOTOROLA**

# PR400™ Portable Two-Way Radio

### Intrinsically Safe

**16 Channels/Up to 16 LTR Talkgroups**

**Antenna**
Choice of antenna options for your specific needs

**Large Rotary Channel Selector**
Fixed rotary knob changes channels quickly and easily

**Rotary On/Off/Volume Control**

**Tri-Color LED Indicator**
Indicates radio status and battery levels

**Accessory Connector with Dust Cover**
Convenient access for audio accessories

**Microphone/Speaker**
Larger, with improved components for enhance audio

**3 Inch Belt Clip**
Attaches radio firmly to belt

**Rugged, Die-Cast Chassis**
With polycarbonate housing for greater protection

**Two Programmable Option Buttons**
Support up to 4 favorite features

**Large, Textured Push-to-Talk Button**
Easy to find and use, even when wearing gloves

**Battery Latch Lock**
Secures battery in case the radio is dropped

PR400 Conventional Features:
- **16 Conventional Channel Model**
- **12.5/25 kHz Switchable Channel Spacing**
- **2 Programmable Buttons**
- **X-Pand™ Technology**
- **Dual Priority Scan**
- **Option Board Expandability**

PR400 Programmable Features:
- **Monitor**
- **High/Low Power Settings**
- **Channel Scan**
- **Nuisance Channel Delete**
- **2 Memory Channels**
- **Repeater/Talkaround**
- **Volume Set**
- **Tight/Normal Squelch**
- **VOX On/Off**

PR400 LTR® Features:
- **Up to 4 Sites and 16 Talkgroups**
- **Up to 20 Repeaters per Site**
- **Up to 4 Universal IDs per System**
- **UHF and VHF Frequencies**
- **Combined System Scan**
- **User Programmable Scan and Phone Lists**
- **Data Operated Squelch (DOS)**

Conventional/LTR Signaling Features:
In addition, the LTR portable radio offers the following signaling features:

- **MDC1200 PTT ID (Numeric ID – Encode)**
- **MDC1200 Radio Check (Decode)**
- **MDC1200 Selective Radio Inhibit (Decode)**
- **Quik Call II™ Selective Call (Decode – Conventional Only)**
- **Quik Call II™ Call Alert (Decode – Conventional Only)**
- **DTMF PTT ID (Encode – Conventional Only)**

**Power and performance to get the job done!**
The PR400 is perfect for new two-way radio users, small organizations and firms that want an affordable solution with a maximum number of features and Motorola's reknowned quality.

These rugged radios are designed to integrate with existing portable and mobile radios – built in versatility that's ideal for Agriculture, Construction, Manufacturing, Transportation and Utilities.

When combined with Motorola Original® accessories the PR400 portable can provide a custom solution for your communication needs.

What's more, Motorola's Accelerated Life Test dishes out the equivalent of five years of abuse over a period of three to five weeks. This comprehensive testing helps produce a tough, high quality radio that will serve you for years to come.

## GENERAL SPECIFICATIONS

| | UHF (1300 mAh NiMH, Intrinsically Safe) |
|---|---|
| Channel Capacity: | 16 |
| Power Supply: | 7.5 Volts +/- 20% |
| FCC Description: | ABZ99FT4056 |
| Dimensions: (H x W x D) | 130 x 62 x 45 mm (5.12 x 2.4 x 1.75 inch ) – without knobs or belt clip |
| Weight: | 449 g (15.83 oz) – with radio, battery and belt clip, without antenna |
| Average Battery Life Capacity: | 1300 mAh |
|   Hi-Power Talk Time: | 9 hrs (5W) |
|   Lo-Power Talk Time: | 11 hrs (1W) |

## RECEIVER

| | UHF (12.5 kHz) | UHF (20/25 kHz) |
|---|---|---|
| Frequency: | 438-470 MHz | 438-470 MHz |
| Sensitivity: (12dB SINAD) | 0.25 uV (typical) | 0.25 uV (typical) |
| Adjacent Channel Selectivity: | -65dB | -70dB |
| Intermodulation: | -70dB | -70dB |
| Frequency Stability: (-30° C to +60° C) | 0.00025% | 0.00025% |
| Spurious Rejection: | -75dB | -75dB |
| Image and 1/2 I-F Rejection: | -70dB | -70dB |
| Audio Output @ < 5% Distortion: | 500mW | 500mW |

## TRANSMITTER

| | UHF | UHF |
|---|---|---|
| RF Output: | Low: 1W | High: 4W |
| Frequency: | 438-470 MHz | 438-470 MHz |
| Channel Spacing: | 12.5/20/25 kHz | 12.5/20/25 kHz |
| Frequency Stability: (-30° C to +60° C) | 0.00025% | 0.00025% |
| Spurs/Harmonics: | -36dBm<1GHz, -30dBm>1GHz | -36dBm<1GHz, -30dBm>1GHz |
| Audio Response: (from 6dB/oct. Premphasis 300 to 3000 Hz) | +1, -3dB | +1, -3dB |
| Audio Distortion: @ 1000 Hz, 60% Rated | < 3% | < 3% |
| FM Noise: | -40dB (12.5 kHz), -45dB (25 kHz) | -40dB (12.5 kHz), -45dB (25 kHz) |
| FCC Modulation: | 11KOF3E, 16KOF3E | 11KOF3E, 16KOF3E |

Headsets for hands-free ease, chargers keep your radio ready to go. Motorola Original® accessories provide a custom solution for your communication needs.

## PORTABLE MILITARY STANDARDS 810C, D, E & F

| | MIL-STD 810C | MIL-STD 810D | MIL-STD 810E | MIL-STD 810F |
|---|---|---|---|---|
| | Method: Cat. | Method: Cat. | Method: Cat. | Method: Cat. |
| Low Pressure: | 500.1: I | 500.2: II | 500.3: II | 500.4: I |
| High Temp: | 501.1: I, II | 501.2: I, II | 501.3: I, II | 501.4: I, II |
| Low Temp: | 502.1: I | 502.2: I, II | 502.3: I, II | 501.4: I, II |
| Temp. Shock: | 503.1: I | 503.2: I | 503.3: I | 503.4: I |
| Solar Radiation: | 505.1: I | 505.2: I | 505.3: I | 505.4: I |
| Rain: | 506.1: I, II | 506.2: I, II | 506.3: I, II | 506.4: I |
| Humidity: | 507.1: II | 507.2: II, III | 507.3: II, III | 507.4: III |
| Salt Fog: | 509.1: I | 509.2: I | 509.3: I | 509.4: I |
| Blowing Dust: | 510.1: I | 510.2: I | 510.3: I | 510.4: I |
| Vibration: | 514.2: VIII, X | 514.3: I | 514.4: I | 514.5: I |
| Shock: | 516.3: I, II, V | 516.3: I, IV | 516.4: I, IV | 516.5: I |

## ACCELERATED LIFE TEST

Motorola's Accelerated Life Test (ALT) is a developmental process of rigorous laboratory testing that simulates years of field use. Motorola has a firm commitment to quality and reliability. These radios have been designed, manufactured and tested to achieve high levels of component and workmanship quality. Motorola radios are designed to minimize costly repairs and downtime.

Channel Partner Logo

Channel Partner Name 1

Channel Partner Name 2

Channel Partner Address and Phone 1

Channel Partner Address and Phone 2

Channel Partner Website 1

Channel Partner Website 2

Channel Identifier 1

Channel Identifier 2

## ENVIRONMENTAL

| | |
|---|---|
| Operating Temperature: | -30˚ C to +60˚ C |
| Storage Temperature: | -40˚ C to +85˚ C |
| ESD | IEC 801-2 KV |
| Water and Dust Intrusion: | 1P54 |

All specifications subject to change without notice.

## MOTOROLA

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