



# PRO7450™

Portable Radio

## PRO7450 Portable Radio: The Versatile Radio for MPT Systems

The PRO7450 portable is essential for growing organizations because of its unique versatility. When necessary, the radio can easily be programmed in the field to add or delete features. So, whether it's the harsh environment of a construction site or the elegance of an exclusive hotel, the radio of choice is the PRO7450 radio. It's the radio that grows with you.

### Signaling

The fully compliant MPT signaling package includes MPT1343, Regionet 43, and ANN modes of operation. Radios are configurable for up to 4 personalities including Talkgroup Select and Conventional mode.

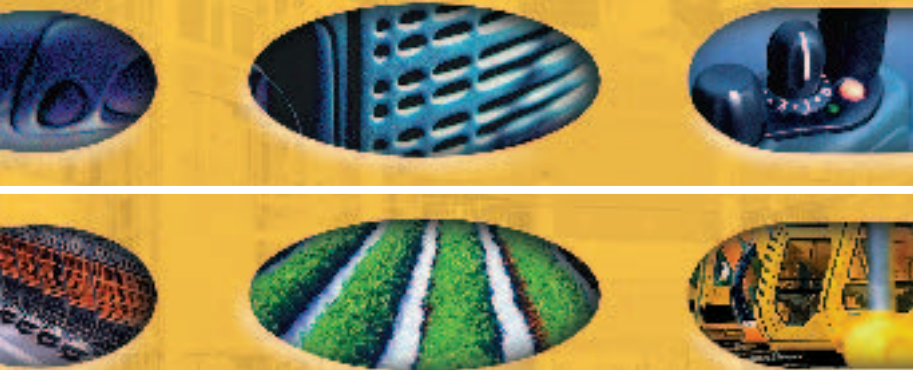
### User Information

A 14-character alpha-numeric display contains a battery gauge and signal quality indicator and provides separate distinctive tones plus name decode for many incoming calls.

### Ease of Use

One touch dialing, simple menus, and user-programmable alpha-numeric phonebook/contact list make the full power of the PRO7450 radio simple and intuitive to use.

contact



control

### Short Data Messages and Status Messages

You can send short alpha-numeric messages or predefined messages ("On Break," "At Lunch," etc.) to other users.

### Option Board Expandability

You can expand the capabilities of the PRO7450 portable by adding option boards such as Voice Storage.

### X-Pand™ Voice Compression and Low Level Expansion

Crisp, clear, and strong audio quality in virtually any noisy environment. Low level expansion allows further improvements in audio quality by reducing noise usually heard during pauses in conversation.

### 12.5/25 kHz Programmable Channel Spacing

Provides flexibility in deployment and stocking.



As Dedicated As You Are

# Professional Radio

# PRO7450 Portable Two-Way Radio Specifications

## general

SPECIFICATION	UHF
Dimensions With standard high-capacity NiMH battery; without clip	Height x Width x Depth 137 mm x 57.5 mm x 37.5 mm 5.40" x 2.26" x 1.50"
Weight (grams/ounces)	420 / 15
Power Supply	Rechargeable battery 7.5 Volts
Average Battery Life @ 5/5/90* Duty Cycle	11 hrs @ low power / 8 hrs @ high power
Model Number	LAH25RDH9CK6AN / LAH25SDH9CK6AN
Frequency Range	403-470 MHz / 450-527 MHz
Channel Spacing	12.5 / 20 / 25 kHz
Frequency Stability (-25°C to 55°C, 25°C Ref.)	±2.5 ppm

\* 5% Receive, 5% Transmit, 90% Standby

## transmitter

SPECIFICATION	UHF
RF Power Output	1-4 W
Modulation Limiting	±2.5 @ 12.5 kHz / ±4.0 @ 20 kHz / ±5.0 @ 25 kHz
FM Hum & Noise	-40 dB
Conducted / Radiated Emissions	-36 dBm (<1 GHz) / -30 dBm (>1 GHz)
Audio Response (0.3-3 kHz)	+1 to -3 dB
Audio Distortion (typical)	3%

## receiver

SPECIFICATION	UHF
Sensitivity (12 dB SINAD) EIA (typical)	0.25 µV
Sensitivity (20 dB SINAD) ETS (typical)	0.50 µV
Intermodulation	70 dB
Adjacent Channel Selectivity	60 dB @ 12.5 kHz / 70dB @ 20 / 25 kHz
Spurious Rejection	70 dB
Rated Audio	0.5 W
Audio Distortion @ Rated Audio (typical)	3%
Hum and Noise	-45 dB @ 12.5 kHz / -50dB @ 20 / 25 kHz
Audio Response (0.3 - 3 kHz)	+1 to -3 dB
Conducted Spurious Emission Per FCC Part 15	-57 dBm<1 GHz -47 dBm>1 GHz

## military standards

Applicable MIL-STD	810C		810D		810E	
	Methods	Procedures	Methods	Procedures	Methods	Procedures
Low Pressure	500.1	1	500.2	2	500.3	2
High Temperature	501.1	1,2	501.2	1,2	501.3	1,2
Low Temperature	502.1	1	502.2	1,2	502.3	1,2
Temperature Shock	503.1	1	503.2	1	503.3	1
Solar Radiation	505.1	1	505.2	1	505.3	1
Rain	506.1	1,2	506.2	1,2	506.3	1,2
Humidity	507.1	2	507.2	2,3	507.3	2,3
Salt Fog	509.1	1	509.2	1	509.3	1
Dust	510.1	1	510.2	1	510.3	1
Vibration	514.2	7, 8,10	514.3	1	514.4	1
Shock	516.2	1,2,5	516.3	1,4	516.4	1,4

Specifications subject to change without notice. All electrical specifications and methods refer to EIA/TIA 603 standards unless noted.




## PRO7450 portable radio features

- Up to 100 Contact List Calls
- User Editing of Contact List
- Dedicated Calls Using the Pre-Programmed Dedicated Call Button
- Manual Dialing Via the Keypad
- Last Number Redial
- Short Data Messages
- Status Messages
- Missed Call Return
- Call Diversion
- Priority Call
- Broadcast Call
- Emergency
- User Absent Mode
- Battery Gauge
- Signal Strength Indicator
- Three (3) Programmable Buttons
- X-Pand Audio Enhancement
- MPT Talkgroup Mode
- Conventional/Talkaround Mode
- DTMF Tone Entry via Keypad
- 12.5/25 kHz Switchable Channel Spacing
- Conventional Time-Out Timer
- Option Board Port

You can expand your radio's capabilities by plugging option boards into the internal port. Please check with your dealer for availability on specific option boards:

- Voice Storage (for Recording Brief Voice Messages)




### Quality/Reliability

-  Motorola Accelerated Life Test
-  Two year warranty on radio parts and labor. One year warranty on all accessories includes antennas and microphones.
-  Military Standards MIL-STD 810 C, D, E

Contact your Motorola Representative today for more information.



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