



EM200™ INDUSTRIAL MOBILE RADIO

80 years of commitment. Motorola continues developing solid relations with its clients, based upon experience and technological quality.

A company recognized for its leadership, by offering innovative communication and information solutions.

The EM200 mobile includes several features to enhance performance including: 8 channels, 1 numeric character display, PTT-ID transmission, selective radio inhibit, priority scan, and internal VOX, among others.

BENEFITS

Single Priority Scan

Monitor communications in different channels without the need for periodic manual changes. The most important channels can be monitored more frequently.

8 Channels

Easily organize your teams into different talkgroups. An ideal tool for complex operations where communication is key.

2 Programmable Buttons

Program the most used features for easy access at the touch of a button.

Internal Voice Operated Transmission (VOX)

With the use of an appropriate audio accessory, you can speak and listen to a radio conversation without having to use your hands.

Selective Radio Inhibit

The EM200 radio includes a security feature that enables the base station to remotely deactivate a radio unit. This feature is especially useful to prevent lost or stolen radios from compromising the integrity of your system. As soon as the radio is turned on, the base station sends a signal that disables all controls except the On/Off button.

ACCESSORIES

Motorola offers a wide range of original accessories to enhance your radio's functionality for every communication need. Motorola Original Accessories are built with the highest Motorola quality standards ensuring effectiveness and durability.

FEATURES

- 8 Channels
- 1-Character Display
- Nuisance Channel Delete
- Single Priority Scan
- Busy Channel Lockout
- Repeater / Talkaround
- X-Pand™
- Internal Voice Operated Transmission (VOX)
- Time-Out Timer
- CSQ / PL / DPL / inv-DPL
- MDC-1200 Signaling
 - PTT-ID (encode)
 - Radio Check (decode)
 - Emergency (encode)
 - Selective Radio Inhibit (decode)
- Quik-Call II Signaling
 - Call Alert (decode)
 - Voice Selective Call (decode)
- DTMF Signaling
 - PTT-ID (encode)
- 2 Programmable Buttons
- Monitor
- Internal Option Board Port

PRODUCT SPEC SHEET
EM200 INDUSTRIAL MOBILE RADIO

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General	Low Power	High Power
Dimensions	Length x Width x Height 44mm x 169mm x 118mm (1.73in. x 6.67in. x 4.64in.)	
Weight	1.02 Kg (2.25 lbs.)	
Current Drain (typical)		
Standby	300 mA 1.5A	
Receive @ Rated Audio with 7.5W external speaker @ 8 Ω		
Transmit	7A @ 25W (VHF) 8A @ 25W (UHF)	9.5A @ 45W (VHF) 9A @ 40W (UHF)
Model Numbers	136-162 MHz LAM50JNC9AA1_N 146-174 MHz LAM50KNC9AA1_N 403-440 MHz LAM50QNC9AA1_N 438-470 MHz LAM50RNC9AA1_N 465-495 MHz LAM50SNC9AA1_N	136-162 MHz LAM50JQC9AA1_N 146-174 MHz LAM50KQC9AA1_N 403-440 MHz LAM50QPC9AA1_N 438-470 MHz LAM50RPC9AA1_N 465-495 MHz LAM50SPC9AA1_N 490-527 MHz LAM50TPC9AA1_N
Frequency Range / FCC Approval	136-162 MHz / ABZ99FT3048 146-174 MHz / AZ492FT3805 403-440 MHz / ABZ99FT4047 438-470 MHz / AZ492FT4856 465-495 MHz / ABZ99FT4063	136-162 MHz / ABZ99FT3049 146-174 MHz / ABZ99FT3046 403-440 MHz / ABZ99FT4064 438-470 MHz / ABZ99FT4048 465-495 MHz / ABZ99FT4049
Channel Spacing	12.5 / 20 / 25 kHz	
Frequency Stability (-30°C to 60°C, 25°C Ref.)	±2.5 ppm	
TRANSMITTER	Low Power	High Power
RF Power Output	1 - 25W	25 - 45W (VHF) 25 - 40W (UHF)
Modulation Limiting	±2.5 @ 12.5 kHz / ±4.0 @ 20 kHz / ±5 @ 25 kHz	
Hum & Noise	-40dB (VHF) @ 12.5 kHz -35dB (UHF) (UHF) @ 12.5 kHz	-45dB (VHF) @ 25 kHz -40dB (UHF) (UHF) @ 25 kHz
Conducted/Radiated Emissions	-36 dBm < 1 GHz / -30 dBm > 1 GHz	
Audio Response (0.3 - 3 kHz)	+1, 3dB	
Audio Distortion	3%	
Receiver	@ 12.5 KHz	@ 25 kHz
Sensitivity (12 dB SINAD) EIA (typical)	0.35 µV	
Intermodulation	-65dB (VHF) / -60dB (UHF)	-75dB (VHF) / -70dB (UHF)
Adjacent Channel Selectivity	-65dB (VHF) / -60dB (UHF)	-75dB (VHF) / -70dB (UHF)
Spurious Rejection	75dB (VHF), 70dB (UHF)	
Rated Audio Internal Speaker External Speaker	4W 13W	
Audio Distortion @ Rated Audio (typical)	3%	
Hum and Noise	-40dB (VHF) -35dB (UHF)	-45dB (VHF) -40dB (UHF)
Audio Response (0.3 - 3 kHz)	ETS 300 and TIA 603	
Spurious Emission (conducted and radiated)	-57 dBm < 1 GHz / -47 dBm > 1 GHz	


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Military Standards

Applicable MIL-STD	810C Methods	Procedures	810C Methods	Procedures	810C Methods	Procedures
Temperature Shock	503.1	1	503.2	1	503.3	1
Solar Radiation	505.1	1	505.2	1	505.3	1
Salt Fog	509.1	1 (48 hours)	509.2	1 (48 hours)	509.3	1 (48 hours)
Vibration	-	-	514.3	Cat.1	514.4	Cat.1
Shock	516.2	1.3	516.3	1,5	516.4	1,5

Specifications subject to change without notice All Specifications & Electrical Methods refer to EIA/TIA 603 standards

For more information please visit us
on the web at: www.motorolasolutions.com/caribbean/businessradios

 Motorola Accelerated Life Test

 Military Standards MIL-SPECS 810 C, D, E

 Meets IP54 Standard

Contact your Motorola Representative for more information.

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