



Motorola EP350™

Industrial Portable Two-Way Radios



Full Keypad

Limited Keypad

Enhanced functionality, ease of use, reliable communication

Easy and prompt communication with your workforce is vital to improving response time, strengthening employee efficiency and increasing customer satisfaction.

Motorola's two-way radios provide a durable, high-quality voice communication solution that helps your business increase productivity and provide excellent customer service. Ideal for light manufacturing, retail, hospitality services, property and real estate management.

The Motorola EP350 Industrial Portable radio brings you quality features you need at a competitive price. With its full keypad for increased ease of use, extensive feature set, and ergonomic shape for comfortable handling in a durable, lightweight, compact design, you can enhance communication while increasing efficiency and productivity.

Physical Features

5 programmable buttons—enabling easy, one-touch access to up to 10 user-selected features.

Keypad (3x4)

(Full keypad model only)

Provides easy accessibility to change channels or place a selective call (DTMF signaling) and allows for Front panel programming.

Built-in simple voice scrambling for **increased privacy.**

Built-in DTMF signaling provides **caller identification** and **selective communication.**

Tighter specifications provide **enhanced rejection of interference** so you can get your message through clearly.

- X-Pand™
- Vox Ready
- Multi Channel
- User Programmable
- Talkaround Capabilities
- Phone Mode

PMMN4013—Remote Speaker Microphone with 3.5mm audio jack, IP54

PMLN5003—Lightweight Temple Transducer with In-line Microphone and PTT

PMLN5001—D-Style Earpiece with In-line Microphone and PTT

PMLN4442—Earbud with In-line Microphone and PTT/VOX switch (Mag One)

HMN9754—2-Wire Surveillance Kit, Beige

Visit motorola.com/radiosolutions for a complete list of accessories.

A wide range of Motorola Original® audio, energy and carrying accessories to personalize a radio solution specific to your needs.

These radios also support Mag One™ audio accessories, which provide an affordable option for light duty radio users.

Motorola EP350 Radio Specifications

General Specifications		Motorola EP350	
	VHF	UHF	
Frequency Range / FCC ID	136-174MHz/ AZ489FT3822	435-480MHz/ AZ489FT4883	
Model Numbers Full Keypad Limited Keypad	LAH03KEK8AA9_N LAH03KEH8AA7_N	LAH03RDK8AA9_N LAH03RDH8AA7_N	
Memory Channels	99 CH		
Channel Spacing	12.5/25 kHz switchable		
Operating Temperature Range	-30°C to +60°C (Radio)		
Dimensions (H X W X D) with Li-Ion battery NiMH battery High Capacity Li-Ion battery	120 x 55 x 35.5 mm 120 x 55 x 36.5 mm 120 x 55 x 40.7 mm		
Weight with Li-Ion battery NiMH battery High Capacity Li-Ion battery	335.0 gm 394.5 gm 342.0 gm		
Average Battery Life @5-5-90% Duty Cycle, with Li-Ion battery NiMH battery High Capacity Li-Ion battery	High Power up to 11 hrs up to 9 hrs up to 16 hrs		
Sealing	Passes rain testing per IP54		
Shock & Vibration	Diecast with impact resistance polycarbonate housing, Meets MIL-STD 810 C / D / E / F		
Dust & Humidity	Weather resistant housing Meets MIL-STD 810 C / D / E / F		

Transmitter		Motorola EP350			
	VHF		UHF		
RF Output	High Power 5W	Low Power 1W	High Power 4W	Low Power 1W	
Spurs and Harmonics	9kHz - 1GHz < -36dBm > 1GHz < -30dBm				
Frequency Stability (-30°C to +60°C)	+/- 2.5ppm				
FM Hum & Noise	> 40dB				
Modulation Limiting	≤ 5kHz (25kHz) ≤ 2.5kHz (12.5kHz)				
Audio Response (from 6dB/oct pre-emphasis, 300-3000Hz)	≤ +1/-3dB				
Audio Distortion @ 1kHz tone, 60% rated max dev.	<5%				

Receiver		Motorola EP350	
	VHF	UHF	
Sensitivity (12dB SINAD) (typical)	<-119 dBm (0.25uV)		
Adjacent Channel Selectivity	> 70dB (25kHz), >65dB (12.5kHz)		
Intermodulation	>70dB		
Spurious Rejection	>70dB		
Audio Distortion	<5%		
Hum and Noise	>40dB		
Conducted Emission	< -57dBm for below 1GHz < -47dBm for above 1GHz		
Audio Output @ <5% Distortion	500mW (at 24 ohm)		

Military Standards		Motorola EP350							
Applicable MIL-STD	810C		810D		810E		810F		
	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.	
High Temperature	501.1	I, II	501.2	I/A1, II/A1	501.3	I/A1, II/A1	501.4	I/Hot, II/Hot	
Low Temperature	502.1	I	502.2	I/C3, II/C1	502.3	I/C3, II/C1	502.4	I/C3, II/C1	
Temperature Shock	503.1	-	503.2	I/A1C3	503.3	I/A1C3	503.4	I	
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I	
Humidity	507.1	II	507.2	II	507.3	II	507.4	-	
Salt Fog	509.1	-	509.2	-	509.3	-	509.4	-	
Blowing Dust	510.1	I	510.2	I	510.3	I	510.4	I	
Vibration	514.2	VIII/F, Curve-W	514.3	I/10, II/3	514.4	I/10, II/3	514.5	I/24	

Note: All electrical specifications and methods refer to EIA/TIA 603 standards. All specifications subject to change without notice.



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- Motorola Accelerated Life Test
- Military Standards MILSPECS 810 C, D, E, F
- Meets IP54 Standard
- Certified ISO 9001
- Nothing works like a Motorola Original Accessory