



# 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](http://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

	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	

	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%			

	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)	

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