

CP185[™] Commercial Portable Two-Way Radio



Easy-to-handle, lightweight, compact design.

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

VOX ready for **hands**free communication users can focus on the job at hand.

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

Multi-channel capability—16 channels to support communication amongst all your employees. Lilon battery provides up to 11 hours (5/5/90 duty cycle) of battery life at high power to meet the demands of your employee's work shift. A high-capacity battery option is available for those with longer shift requirements or increased communication needs.

Rapid-rate drop-in charging—charge radios in less than 3 hours with the included drop-in charger.

High power—5 watt (VHF) / 4 watt (UHF) adjustable power levels help extend battery life.

Repeater capability when **increased coverage** is required.

Talkaround capability

enabling communication even when a repeater is not being used.

Tighter specifications: -70 dB adjacent channel selectivity provides **enhanced rejection of interference** from strong signals on adjacent channels so you can get your message through clearly.

The CP185 portables offer a wide range of Motorola Original[®] audio, energy and carrying accessories as well as Mag One[™] audio accessories, which provide **an affordable option** for light duty radio users.

Enhanced functionality, reliable communication

Easy, discreet 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 educational institutions, retail and hospitality businesses, service and manufacturing industries and other demanding applications, the Motorola CP185 brings you a robust two-way radio solution. With its extensive feature set, ergonomic shape for comfortable use plus voice privacy in a durable, lightweight, compact design, you can enhance communication while increasing efficiency and productivity.

CP185[™] Radio Specifications

General Specifications				
	CP18	CP185		
	VHF - 136-174 MHz	UHF - 435-480 MHz		
Channel Capacity	16	16		
Channel Spacing	12.5 / 25 kHz	12.5 / 25 kHz switchable		
Model Numbers	AAH03KEF8AA7AN	AAH03RDF8AA7AN		
FCC ID	AZ489FT3822	AZ489FT4883		
IC ID	109U-89FT3822	109U-89FT4883		
FCC Emissions Designators	11K0F3E	16K0F3E		
Dimensions (H x W x L)	4.72 x 2.28 x 1.46 in.	4.72 x 2.28 x 1.46 in. (120 x 58 x 37 mm)		
Weight (with Lilon)	12.34 ounce	12.34 ounces (350 g)		
Average Battery Life @ 5-5-90% Duty Cycle ¹ Lilon battery NIMH battery High Capacity Lilon battery	up to 10	up to 11 hours up to 10 hours up to 16 hours		

Transmitter

	CP185		
	VHF	UHF	
RF Output	2 to 5W	2 to 4W	
Frequency Stability ²	±2.5 ppm		
Spurs and Harmonics	-63dBc (-26dBm @ 5W: -27dBm @ 4W)		
FM Hum and Noise Ratio ²	> 40 dB		
Modulation Limiting ² (12.5/25 kHz)	≤2.5 kHz / ≤5 kHz		
Audio Response	+ 1 to -3 dB		
Audio Distortion ²	< 5%		

Receiver

	CP185		
	VHF	UHF	
Sensitivity ² (12 dB SINAD)	< -119 dBm (.25uV)		
Adjacent Channel Selectivity ² (12.5/25 kHz)	-65 dB / -70 dB		
Intermodulation ² (12.5/25 kHz)	>70 dB		
Spurious Rejection ²	>70 dB		
Audio Distortion ²	< 5%		
Hum and Noise Radio ² (12.5/25 kHz)	> 40 dB		
Conducted Emission	< -57 dBm		
Audio Output @ <5% Distortion	500 mW (at 24 ohm)		

Applicable MIL-STD	8	10C	81	10D	81	0E	8	10F
	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.
Low Pressure	500.1	I.	500.2	П	500.3	Ш	500.4	1
High Temperature	501.1	1, 11	501.2	I/A1, II/A1	501.3	I/A1, II/A1	501.4	l/Hot, Il/Hot
Low Temperature	502.1	l. 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	1
Solar Radiation	505.1	Ш	505.2	I.	505.3	I.	505.4	1
Rain	506.1	1, 11	506.2	I, II	506.3	I, II	506.4	l, III
Humidity	507.1	Ш	507.2	П	507.3	Ш	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
Blowing Sand	-	-	510.2	П	510.3	Ш	510.4	1
Vibration	514.2	VIII/F, Curve-W	514.3	I/10, II/3	514.4	I/10, II/3	514.5	I/24
Shock	516.2	1, 11	516.3	I, IV	516.4	I, IV	516.5	I, IV

Environmental Specifications

Operating Temperature Range	-30°C to +60°C (Radio)
Water and Dust Intrusion	IP54, MILSTD

¹⁵% receive, 5% transmit, 90% standby ²All electrical specifications and methods refer to EIA/TIA 603 standards. Specifications shown are typical and subject to change without notice.



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