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CP185 COMMERCIAL PORTABLE TWO-WAY RADIO

Easy, discreet and prompt communication with your workforce is vital to improving response time, strengthening employee efficiency and increasing customer satisfaction. Motorola's CP185 two-way radios provide a durable, high-quality voice communication solution that helps your business or institution 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, voice privacy, and durable, lightweight, compact design—you can enhance communication while increasing efficiency and productivity.

COMPACT DESIGN—easy-to-handle and lightweight.

INCREASED PRIVACY—built-in simple voice scrambling.

HANDS-FREE COMMUNICATION—VOX ready for hands-free use lets users focus immediately 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 among employees and staff members.

X-PAND™ TECHNOLOGY—providing crisp, clear and strong audio quality in noisy environments.

STANDARD LI-ION BATTERY—provides up to 11 hours* of battery life at high power to meet the demands of employee and staff work shifts. A high-capacity battery is available for longer shift requirements and increased communication needs.

RAPID-RATE DROP-IN CHARGING—charge radios in less than 3 hours with the included drop-in charger.

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

INCREASED COVERAGE—Repeater capability when more coverage is required.

TALKAROUND CAPABILITY—enabling communication even when a repeater is not being used.

TIGHTER SPECIFICATIONS—adjacent channel selectivity of -70 dB provides enhanced rejection of interference from strong signals on adjacent channels so messages get through clearly.

MEETS MILITARY STANDARDS 810 C, D, E AND F—to stand up to demanding conditions.

* 5/5/90 duty cycle.



CP185

EDUCATION

HOSPITALITY

MANUFACTURING

PROPERTY MANAGEMENT

RETAIL

PRODUCT SPEC SHEET
CP185™

GENERAL SPECIFICATIONS

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

TRANSMITTER

CP185	
VHF	UHF
RF Output	2 to 5W
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 Ratio ² (12.5/25 kHz)	> 40 dB
Conducted Emission	< -57 dBm
Audio Output @ < 5% Distortion	500 mW (at 24 ohm)

MILITARY STANDARDS—MIL-STD

	810C		810D		810E		810F	
	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II
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
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, III
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
Blowing Sand	—	—	510.2	II	510.3	II	510.4	II
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	I, II	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, MIL-STD

¹5% receive, 5% transmit, 90% standby.

²All electrical specifications and methods refer to EIA/TIA 603 standards.

Specifications subject to change without notice. All specifications shown are typical.

Radio meets applicable regulatory requirements.

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