



CP185™ COMMERCIAL PORTABLE TWO-WAY RADIO

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 CP185 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, the Motorola CP185 brings you a robust two-way radio solution. With its ergonomic shape for comfortable use plus everyday security features in a durable, lightweight, compact design, you can enhance communication while increasing efficiency and productivity.

EASY-TO-HANDLE, LIGHTWEIGHT AND COMPACT

Small and lightweight, the CP185 fits comfortably into your hand and is easy to use. To provide the right features for each user, the CP185 is available in a Limited Keypad (LKP) model with screen, and a No Keypad (NKP) model. Voice activated (VOX) ready for hands-free communication lets users focus on the job at hand improving safety and efficiency. The programmable buttons, five for the LKP model and two for the NKP model, enable easy, one-touch access for up to 10 user-selected features.

INCREASED PRIVACY

Enhance your privacy with built-in simple voice scrambling and utilize the Remote Inhibit feature, using MDC1200 Signaling, for de-activation of lost or stolen radios.

ADDED FUNCTIONALITY

16 channels support communication for all your employees even within larger retailers. The CP185 supports MDC, DTMF and QC-II signaling, delivering usability features such as caller ID and call alert.

COMMUNICATE LIKE NEVER BEFORE

Increase your coverage with repeater capability or use the Talkaround feature, which enables communication even when a repeater is not being used. Tighter audio specifications like the -70 dB adjacent channel selectivity provides enhanced rejection of interference from strong signals on adjacent channels so your message can get through clearly.

STAY POWERED FOR THE ENTIRE SHIFT

A Li-Ion 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 also available. The high power option, 5 watt (VHF) / 4 watt (UHF), with adjustable power levels help extend battery life. A rapid-rate drop-in charger can charge the radios in less than three hours.

VERSATILE ACCESSORY PORTFOLIO

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



PRODUCT DATA SHEET

CP185™ COMMERCIAL PORTABLE TWO-WAY RADIO

GENERAL SPECIFICATIONS			TRANSMITTER			RECEIVER		
	CP185			CP185			CP185	
	VHF 136-174 MHz	UHF 435-480 MHz		VHF	UHF		VHF	UHF
Channel Capacity	16		RF Output	2 to 5W	2 to 4W	Sensitivity ² (12 dB SINAD)	< -119 dBm (0.25uV)	
Channel Spacing	12.5 / 25* kHz switchable		Frequency Stability ²	±2.5 ppm		Adjacent Channel Selectivity ² (12.5/25* kHz)	-65 dB / -70 dB	
FCC Description	AZ489FT3822	AZ489FT4883	Spurs and Harmonics	-63dBc (-26dBm @ 5W: -27dBm @ 4W)		Intermodulation ² (12.5/25* kHz)	>65 dB/>70 dB	
IC ID	109U-89FT3822	109U-89FT4883	FM Hum and Noise Ratio ²	> 40 dB		Spurious Rejection ²	>70 dB	
FCC Emissions Designators	11K0F3E	16K0F3E	Modulation Limiting ² (12.5/25* kHz)	≤2.5 kHz / ≤5 kHz		Audio Distortion ²	< 5%	
Dimensions (H x W x L)	4.7 x 2.3 x 1.5 in. (120 x 58 x 37 mm)		Audio Response	+ 1 to -3 dB		Hum and Noise Ratio ² (12.5/25* kHz)	> 40 dB	
Weight including Li-Ion battery	12 oz (350 g)		Audio Distortion ²	< 5%		Conducted Emission	< -57 dBm	
Battery life ¹			Audio Distortion ²	5%		Audio Output @ <5% Distortion	500 mW	
Li-Ion battery	Up to 11 hours							
NiMH battery	Up to 10 hours							
High Capacity Li-Ion battery	Up to 16 hours							

MILITARY STANDARDS 810 C, D, E AND F								
	MIL-STD 810C		MIL-STD 810D		MIL-STD 810E		MIL-STD 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	510.2	I	510.3	I	510.4	I
Curve-W	514.3	I/10, II/3	514.4	I/10, II/3	514.5	I/24	514.5	I
Shock	516.2	I, II	516.3	I, IV	516.4	I, IV	516.5	I, IV

ENVIRONMENTAL	
Operating Temperature Range	-22 F to 140 F (-30 C to +60 C)
Water and Dust Intrusion	IP54, MIL-STD

¹Typical battery life, 5/5/90 profile at maximum transmitter power. Actual observed runtimes may vary.

²Specifications and methods refer to EIA/TIA 603 standards.

*25 kHz channels not available in the USA.

Motorola, Inc. 1301 E. Algonquin Road, Schaumburg, Illinois 60196 U.S.A. motorolasolutions.com

MOTOROLA, MOTO, MOTOROLA SOLUTIONS and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. All other trademarks are the property of their respective owners. © 2015 Motorola, Inc. All rights reserved. 11-2015