



CP200-XLS

Portable Two-way Radios in Limited and Full Keypad Models



- Large Rotary Channel Selector
Continuous rotary knob
- 128 Channels:
Up to 100 LTR Talkgroups
- Backlit 8-Character Alphanumeric
Display with user-friendly icons indicates
radio status, battery levels and allows for
viewing of channel names and Caller IDs
- Four Programmable Buttons:
S1, S2, P1, P2
Two side and two front buttons provide
quick access to up to 8 features
- Menu Scroll Buttons
Change channel and access
menu features
- Full DTMF Keypad

All CP200-XLS portable models include:

- Li-Ion 2250 mAh Battery
- Rapid Rate Charger
- Antenna – VHF Heliflex or UHF Whip
- 3 Inch Belt Clip
- Quick Reference/Safety and Warranty Guide
- 2-Year Warranty

CP200-XLS Limited and Full Keypad Portable Features:

- | | | |
|---|---|---|
| <ul style="list-style-type: none"> • 128 Conventional Channels • Up to 100 LTR Talkgroups • Up to 10 Sites and 100 Talkgroups in LTR • Mixed Assignment of Conventional Personalities and LTR Talkgroups • Up to 20 Repeaters per Site in LTR • Up to 4 Universal IDs per System in LTR • Up to 40 Universal IDs per Radio in LTR • Up to 8 Programmable Features • Supports up to 16 Scan Lists of up to 16 Channels Per List – Limited Keypad only • User-Editable Standard TPL/DPL Codes | <ul style="list-style-type: none"> • User-Editable Scan List • Lights On/Off • Tones On/Off • Call Tone Tagging • Quik-Call II™ Signaling Includes:
Selective Call Encode
Call Alert Encode • DTMF Signaling Includes:
Selective Call
Call Alert Encode/Decode • LTR Trunking Signaling Features:
MDC 1200 Signaling
PTT-ID Encode | <ul style="list-style-type: none"> PTT-ID Decode Radio Check Decode Selective Radio Inhibit Decode Data-Operated Squelch (DOS) Pre-Time <p>The Full Keypad model has all of the same regular features as the Limited Keypad model plus the following:</p> <ul style="list-style-type: none"> • Dial Phone Numbers • Manual Access Repeater
Send DTMF tones to repeater • User-Editable Phone List • Speed Dial for Radio Call Encode |
|---|---|---|

Programmable Features: Choose up to 8

- | | | |
|---|---|--|
| <ul style="list-style-type: none"> • Menu Mode • Monitor • Repeater/Talkaround • Revert Memory Channel • Store Memory Channel • Home Revert Auto Key • Voice Operated Transmission (VOX) • Keypad Lock/Unlock | <ul style="list-style-type: none"> • Radio Call Initiates:
Quik-Call II
DTMF Call Alert
Selective Call Encode • Scan/Nuisance Channel/Talkgroup Delete • Edit Scan List • Phone Mode • Escalator • Squelch • Power Level | <ul style="list-style-type: none"> • Lights <p>The Full Keypad model has all of the same programmable features as the Limited Keypad model plus the following:</p> <ul style="list-style-type: none"> • Speed Dial • DTMF (Full-Keypad) Specific Features
DTMF Last Number Redial in Phone Mode
Auto DTMF Access/De-access Code
Manual Entry of DTMF Access/
De-access Code |
|---|---|--|

Feature-rich with simple operation.

The expanded features of the CP200-XLS portable two-way radio makes it a perfect fit for education, hospitality, retail, manufacturing and security organizations who need additional capabilities and capacity to manage a large workforce. Featuring both conventional and LTR® trunking capability, the

CP200-XLS is available in both a limited keypad and full keypad model, the CP200-XLS also features an 8 character alpha-numeric display, four programmable buttons for quick access to up to eight programmable features and X-Pand™ technology for crisp, clear audio—all in a lightweight, durable design.

SPECIFICATIONS

GENERAL SPECIFICATIONS			
	CP200-XLS VHF		CP200-XLS UHF
Frequency	136-162 MHz 146-174 MHz		403-440 MHz 438-470 MHz 465-495 MHz
Channel Capacity	128 Channels		
Power Supply	7.5 Volts ± 20%		
Dimensions with Battery	127.5 x 61.50 x 45mm (5.0 x 2.4 x 1.75 inches)		
2250 mAh Li-Ion	127.5 x 61.55 x 42mm (5.0 x 2.4 x 1.65 inches)		
1600 mAh Slim Li-Ion	127.5 x 61.55 x 43mm (5.0 x 2.4 x 1.69 inches)		
1400 mAh NiMH	127.5 x 61.50 x 45mm (5.0 x 2.4 x 1.75 inches)		
950 mAh NiCd			
Weight with Battery	370 g (13.04 oz)		
2250 mAh Li-Ion	374 g (13.19 oz)		
1600 mAh Slim Li-Ion	444 g (15.66 oz)		
1400 mAh NiMH	425 g (14.98 oz)		
950 mAh NiCd			
Average Battery Life ¹	1W	5W	1W 4W
2250 mAh Li-Ion	17 Hrs	14 Hrs	17 Hrs 14 Hrs
1600 mAh Slim Li-Ion	14 Hrs	12 Hrs	14 Hrs 12 Hrs
1400 mAh NiMH	11 Hrs	10 Hrs	11 Hrs 10 Hrs
950 mAh NiCd	9 Hrs	8 Hrs	9 Hrs 8 Hrs
FCC Designation	ABZ99FT3039 ABZ99FT3045		ABZ99FT4056 ABZ99FT4057 ABZ99FT4058

RECEIVER SPECIFICATIONS			
	CP200-XLS VHF		CP200-XLS UHF
Frequency	12.5 kHz	20/25/30 kHz ²	12.5 kHz 20/25/30 kHz ³
	136-162 MHz 146-174 MHz		403-440 MHz 438-470 MHz 465-495 MHz
Sensitivity ² (12dB EIA SINAD)	0.25 µV		0.25 µV
Adjacent Channel Selectivity ²	-65 dB	-70 dB	-60 dB -70 dB
Intermodulation ²	-70 dB	-70 dB	-70 dB -70 dB
Frequency Stability ² (-30° to +60° C)	0.00025%		0.00025%
Spurious Rejection ²	-75 dB		-75 dB
Image and 1/2 I-F Rejection ²	-70 dB		-70 dB
Audio Output ² @ < 5% Distortion	500mW		500mW

TRANSMITTER SPECIFICATIONS			
	CP200-XLS VHF		CP200-XLS UHF
RF Output	1W / 5W		1W / 4W
Frequency	136-162 MHz 146-174 MHz		403-440 MHz 438-470 MHz 465-495 MHz
Channel Spacing	12.5/20/25 kHz ³		
Frequency Stability (-30° to +60° C)	0.00025%		
Spurs/Harmonics ²	-36 dBm < 1 GHz, -30 dBm > 1 GHz		
Audio Response ² From 6dB/octave Preemphasis, 300 to 3000 Hz	+1, -3 dB		
Audio Distortion ² @ 1000 Hz, 60% Rated Maximum Deviation	< 3%		
FM Noise ²	-40 dB (12.5 kHz) -45 dB (25 kHz) ³		
FCC Modulation	20/25/30 kHz ³	16KOF3E 11KOF3E	16KOF3E 11KOF3E
	12.5 kHz		

PORTABLE MILITARY STANDARDS 810 C, D, E and F								
	MIL-STD 810C		MIL-STD 810D		MIL-STD 810E		MIL-STD 810F	
	Method	Procedures	Method	Procedures	Method	Procedures	Method	Procedures
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	I
High Temperature	501.1	I, II	501.2	I, II	501.3	I, II	501.4	I, II
Low Temperature	502.1	I	502.2	I, II	502.3	I, II	501.4	I, II
Temperature Shock	503.1	I	503.2	I	503.3	I	503.4	I
Solar Radiation	505.1	I	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
Humidity	507.1	II	507.2	II, III	507.3	II, III	507.4	III
Salt Fog	509.1	I	509.2	I	509.3	I	509.4	I
Blowing Dust	510.1	I	510.2	I	510.3	I	510.4	I
Vibration	514.2	VIII, X	514.3	I	514.4	I	514.5	I
Shock	516.3	I, II, V	516.3	I, IV	516.4	I, IV	516.5	I

¹ 5% receive, 5% transmit, 90% standby.

² All electrical specifications and methods refer to EIA/TIA 603 standards. Specifications shown are typical and subject to change without notice.

³ 25 kHz not available in the US on new equipment after 1/1/2011.

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ENVIRONMENTAL	
Operating Temperature	-30° to +60° C
Storage Temperature	-40° to +85° C
ESD	IEC 801-2 KV
Thermal Shock	-40° to +80° C
Humidity	95% RH @ 8 Hour
Water and Dust Intrusion	IP 54
Packing Test	Impact test

Accelerated Life Test

Motorola's Accelerated Life Test (ALT) is a developmental process of rigorous laboratory testing that simulates years of field use. Motorola has a firm commitment to quality and reliability. These radios have been designed, manufactured and tested to achieve high levels of component and workmanship quality. Motorola radios are designed to minimize costly repairs and downtime.

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