

Motorola P165 & P185

Portable Two-Way Radios



Easy-to-handle, lightweight, compact design.

Tough construction and reliable performance thanks to Motorola's unique Accelerated Life Testing (ALT)

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

Multi-channel capability - 99 channels to support communication amongst all your employees.

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

Tighter specifications provide **enhanced rejection of interference** so you can get your message through clearly. X-Pand technology provides **crisp**, **clear and strong audio quality**.

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

VOX ready for **hands-free communication** using a suitable headset.

Built-in simple voice scrambling for

increased privacy.

Built-in DTMF signaling provides caller identification and private communication.

User programmable

feature allows customisation of radio profiles while on the go.

Talkaround capability

enabling communication even when a repeater is not being used.

Rapid-rate drop-in charging - charge standard capacity batteries in less than 3 hours with the single unit charger. Get the most from your radio using the wide range of **Motorola Original®** accessories: microphones, earpieces, carry cases, a high capacity battery and more allow the user to match the radio to their needs.

Remote Speaker Microphones can be clipped to a lapel or pocket, allowing messages to be sent and received more easily.

Earpieces and headsets let you keep your hands free without missing messages.

Carry cases let you put the radio on your belt and help prevent damage.

High capacity battery means longer run-times between recharging.

Enhanced functionality, 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 P165 and P185 portable radios bring you quality features you need at a competitive price. With an extensive feature set and ergonomic shape for comfortable use in a durable, lightweight, compact design, you can enhance communication while increasing efficiency and productivity.

General Specifications									
		P165 & P185							
		VHF					HF		
Frequency Range		136-174MHz 403-447MHz 435-480MHz							
Channel Capacity		99 CH							
Channel Spacing		12.5/20/25 kHz switchable							
Operating Temperature Range		-20°C to +55°C							
Storage Temperature Range		-40°C to +85°C							
Dimensions (H X W X D) with Lilon battery NiMH battery High Capacity Lilon battery		120 x 55 x 35.5 mm 120 x 55 x 36.5 mm 120 x 55 x 40.7 mm							
Weight with Lilon battery NIMH battery High Capacity Lilon battery		335g 395g 340g							
Average Battery Life @5-5-90% Duty Cycle, with Lilon battery NIMH battery High Capacity Lilon battery		High Power up to 11 hrs up to 9 hrs up to 16 hrs							
Sealing		Rated IP54 - protected against harm from dust or water spray							
Shock & Vibration		Diecast body with impact resistant polycarbonate housing, Meets MIL-STD810C/D/E/F							
Dust & Humidity		Weather resistant housing Meets MIL-STD810C/D/E/F							
Transmitter									
RF Output	High Po	wer 5W	Low Po	ower 1W	High Po	ower 4W	Low Po	ower 1W	
Spurs and Harmonics		9kHz - 1GHz <-36dBm >1GHz <-30dBm							
Frequency Stability (-20°C to +55°C)		1.5 kHz @ 12.5 kHz 2.0 kHz @ 20/25 kHz							
Modulation Limiting		≤ ± 5KHz @ 25KHz ≤ ± 4KHz @ 20KHz ≤ ± 2.5KHz @ 12.5KHz							
Audio Response (from 6dB/oct pre-emphasis, 300-3000Hz)		≤+1/3dB							
Audio Distortion @ 1kHz tone, 60% rated max dev.		<5%							
Receiver									
Sensitivity (20dB SINAD)		< -107 dBm (1μV/50 Ohm)							
Adjacent Channel Selectivity		>70dB (25kHz), >65dB (12.5kHz)							
Intermodulation		>65dB							
Spurious Rejection		>70dB							
Audio Distortion		<5%							
Conducted Emission		< -57dBm for below 1GHz < -47dBm for above 1GHz							
Audio Output @ <5% Distortion		500mW (at 24 ohm)							
Military Standards	•								
Applicable MIL-STD		810C		810D		810E		810F	
	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat	
High Temperature	501.1	1, 11	501.2	I/A1, II/A1	501.3	I/A1, II/A1	501.4	I/Hot, II/Ho	
Low Temperature	502.1	1	502.2	I/C3, II/C1	502.3	I/C3, II/C1	502.4	I/C3, II/C1	
						1/4100			
Temperature Shock Solar Radiation	503.1 505.1	- II	503.2 505.2	I/A1C3	503.3 505.3	I/A1C3	503.4 505.4	1	

507.1

509.1

510.1

514.2

П

VIII/F, Curve-W 507.2

509.2

510.2

514.3

Conforms to R&TTE directive 1999/5/EC

To ensure compliance with RF energy exposure standards and regulations, use only Motorola-approved batteries and accessories.

Contact your local Motorola Authorised Dealer to find out more about how communicating with Motorola radios will benefit your organisation

Version 1 05/09

Humidity

Salt Fog

Vibration

Blowing Dust



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I/10, II/3

Stringent Motorola Accelerated Life Testing simulating five years of hard use in real life. EIA R5-3168 in Shock, Vibration, Dust, Humidity, IPS4 for Sealing.



507.3

509.3

510.3

514.4



I/10, II/3



507.4

509.4

510.4

514.5



1/24





^{*} Availability subject to individual country's law and regulations. Radios meet applicable regulatory requirements. All specifications listed are typical and are subject to change without notice. Specifications are issued for guidance only.