



TWO WAY RADIOS UK

[HTTPS://TWOWAYRADIOSUK.CO.UK](https://twowayradiosuk.co.uk)

01782537000



Digital Migration Radio P4D85

- Clear Audio
- Built-in Bluetooth and GPS option
- Analogue and Digital Auto Detect





Features

- 
ANALOGUE & DIGITAL AUTO DETECT
 Compatible with analogue conventional and digital conventional modes. Allows P4D85 to simultaneously monitor analogue and digital modes and automatically respond in each mode. Extremely easy migration to digital from analogue.
- 
DTMF SIGNALING
- 
DUAL CAPACITY DIRECT MODE
 In direct mode, you can have two voice calls simultaneously, because of the two timeslots from DMR TDMA technology. This feature can be used to increase the radio capacity at no extra cost, without the need for additional frequency licenses.
- 
PRIVACY (Optional)
 Basic end-to-end Encryption has your voice and data transmission secured.
- 
EMERGENCY ALARM/CALL
 Emergency Alarm can be sent to other radios via the one touch programmable button, establishing an emergency call in a specific group. Improves your emergency response time.
- 
PSEUDO TRUNK
 This virtual trunking feature allocates a free timeslot for urgent communications. This effectively enhances frequency efficiency and allows you to communicate in a timely manner in emergency situations.
- 
REAL TIME CLOCK
 Ensures the real time is displayed on the menu and GPS/messaging.
- 
RADIO REGISTRATION SERVICE
 RRS allows the P4D85 to communicate with Smart Dispatch and SmartOne, so that the dispatcher can check if the radio is on or offline.
- 
SUPPLEMENTARY FEATURES (Optional)
 The P4D85 can provide radio enable/disable, remote monitor and priority interrupt as optional features.
- 
ROAMING (Optional)
 Roam from each repeater site to have a non-stop voice transmission.
- 
GPS POSITIONING (Factory Optional)
 The built-in GPS module and GPS antenna are designed for outdoor positioning, making it the ideal tool to support location based requirements.
- 
BUILT-IN BLUETOOTH (Factory Optional)
 Built-in Bluetooth supports P4D85 wireless audio accessories and other Bluetooth transmissions.
- 
RELIABLE AND DURABLE
 The P4D85 is compliant with Mil-STD-810 G and IP54.
- 
VOX
 This feature allows you to activate the radio microphone at speaking volume, so that you do not need to press the PTT.

Target Markets



FLEET MANAGEMENT

With RRS, the P4D85 can be accessed by dispatch applications for effective radio fleet management. Whether it's voice dispatching, SDS messaging or location based services, the P4D85 is ideal for team communications.



SECURITY

Privacy in any voice or data communication is essential for security teams. Emergency call, priority interrupt and remote monitor functions provide a reliable communication system to support security staff who always need to remain alert and connected.



COMMERCIAL

Clear digital voice processors and powerful audio output ensures you receive your transmission even in noisy environments. Use the wireless earpiece or other audio accessories to improve your operating experience.



OUTDOOR ADVENTURES

Flexible to program through the front panel and built to military standards, achieving IP54 rating for water and dust ingress protection, the PD485 is ready for your next adventure.

Standard



Li-ion Battery
(2000mAh)
BL2010



Belt Clip
BC19



General MCU Rapid-rate Charger
(for Li-Ion/Ni-MH Batteries)
CH10A07



Stubby Antenna



Switching Power Adapter



Hand Strap

Options



Specifications

General			Transmitter	
Frequency Range		UHF: 350-470MHz VHF: 136-174MHz		
Channel Capacity		256		
Zone Capacity		16		
Channel Spacing		25/12.5KHz		
Operating Voltage		7.4V		
Battery		2000mAh (Li-Ion)		
Battery Life (5/5/90)		Analogue/Digital: 12/16 hours		
Weight		308g		
Dimensions		117×55×37mm		
Frequency Stability		±0.5ppm		
Antenna Impedance		50Ω		
Receiver				
Sensitivity (Digital)		0.22μV / BER 5%		
Sensitivity (Analog)		0.22μV (Typical) (12dB SIN AD) 0.4μV (20dB SIN AD) 0.22μV (12dB SIN AD)		
Adjacent Selectivity	TIA-603	60dB @ 12.5KHz/70dB @ 25KHz		
	ETSI	60dB @ 12.5KHz/70dB @ 25KHz		
Spurious Response Rejection	TIA-603	70dB @ 12.5/25KHz		
	ETSI	70dB @ 12.5/25KHz		
Inter-modulation	TIA-603	70dB @ 12.5/25KHz		
	ETSI	65dB @ 12.5/25KHz		
Hum & Noise		40dB @ 12.5KHz 45dB @ 25KHz		
Rated Audio Power Output		0.5W		
Rated Audio Distortion		≤3%		
Audio Response		+1 ~ -3dB		
Conducted Spurious Emission		<-57dBm		
RF Power Output		VHF High power: 5W VHF Low power: 1W UHF High power: 4W UHF Low power: 1W		
FM Modulation		11K0F3E @ 12.5KHz 16K0F3E @ 25KHz		
4FSK Digital Modulation		12.5KHz Data Only: 7K60FXD 12.5KHz Data & Voice: 7K60FXW		
Conducted/Radiated Emission		-36dBm <1GHz, -30dBm >1GHz		
Modulation Limiting		±2.5KHz @ 12.5KHz ±5.0KHz @ 25KHz		
FM Hum & Noise		40dB @ 12.5KHz 45dB @ 25KHz		
Adjacent Channel Power		60dB @ 12.5KHz, 70dB @25KHz		
Audio Response		+1 ~ -3dB		
Audio Distortion		≤3%		
Digital Vocoder Type		AMBE++		
Digital Protocol		ETSI-TS102 361-1,-2,-3		
Environmental				
Operating Temperature		-30℃~ +60℃		
Storage Temperature		-40℃~ +85℃		
ESD		IEC 61000-4-2 (Level 4) ±8kV (Contact) ±15kV (Air)		
Dustproof & Waterproof		IP54 Standard		
Humidity		Per MIL-STD-810 G Standard		
Shock & Vibration		Per MIL-STD-810 G Standard		
PD48X, X=0, 2, 5, 6 or 8, model number varies geographically. For details, please contact our regional sales representatives.				
All specifications are subject to change without notice due to continuous development.				



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