





Intrinsically Safe DMR Radio PD5 2 SERIES UL913

- UL Certified DMR radio
- Analog & Digital Dual Modes
- Compact design







PD502i PD562i



UL913 Certificate

Class I II III-Division 1, Group C-G, -30°C to 55°C, T4 Class I- Division 2, Group A-D

Atmosphere: Class I-Gas, vapors; Class II-Dust; Class III-Fibers, Flyings

Operating Temperature

Temperature Class (Maximum device surface temperature)

T1-450°C T3C-160°C T2-300°C T4-135°C T3-200°C T5-100°C T3A-180°C T6-85°C

T3B-165℃

Class I II III Division 1 Group C-G -30°C to 55°C T4

Area Classification: (Flammable material present time) NEC 500 Division 1: Gas/Dust normally present in explosive amounts Division 2: Gas/Dust not normally present in explosive amounts

Gas Types by Group:

A-Acetyene

B-Hydrogen

C-Ethylene and related products
D-Propane and alcohol products

Dust Types by Group:

E-Metal dust F-Coal dust

G-Grain and non-metallic dust





Features

Small, Sleek, Light

The size is 115 X 54 X 35mm (PD502i UL913)/115 X 54 X 37mm (PD562i UL913), dual-color injection, weight is 298g PD502i UL913)/ 311g(PD562i UL913).

Long Battery Life

In digital mode, PD5i UL913 Series operate upto 20 hours under a duty cycle of 5-5-90.

Rugged & Reliable

It is compliant with MIL-STD-810 G standards & IP54.

One Touch Call/Text

Support One Touch features that comprise Preprogrammed Text Messages, Voice Calls and Supplementary Features.

Supplementary Features (optional)

PD5i UL913 Series support radio enable, radio disable, and remote monitor, as well as priority interrupt.

Dual Mode (Analog & Digital)

Dual modes (analog & digital) operation ensures a smooth analog to digital migration.

Radio Registration Service

RRS allows PD5i Series to work in Smart Dispatch and SmartOne Dispatch system, so that the dispatcher can check if the radio is on line or off line.

A&D Mixed Scan

PD5i supports to have analog channel and digital channels added in one scan list. This is more convenient for customers to have a smooth migration from analog radios to digital radios.

Secure Communication

Provide basic digital encryption and Scrambler feature in analog mode.

Advanced Signaling

Support multiple advanced analog signaling modes, including HDC1200, 2-Tone and 5-Tone, providing better integration into existing analog radio fleets.

Emergency Alarm

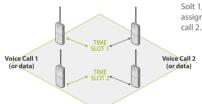
Emergency Alarm can be sent to other radios via one touch of programmable button, then establish an emergency call in a specific group. Make your response for big event more quickly.

Single-site XPT Trunking (optional)

PD5i UL913 supports working in Hytera XPT Trunking system, which is a cost-effective trunking system and provides dynamic assignment of voice and data service for a large number of subscribers.

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.



Solt 1, Solt 2 are automatically assigned to voice call 1 or voice

Highlights

- UL Certified DMR radio
- Ergonomic User-Friendly Design
- Light & Durable
- Compact Size & Clear Voice
- Cost-effective

Target Markets



Manufacturing

Some flammable metal, mineral, or other dusts, existing in the factory's air, may give rise to explosion.



Chemical Industry

Flammable substances are converted and processed. These processes may give rise to explosive mixtures.



Food and feedstuffs industry

Explosive dusts may arise during transport and storage of grain, sugar, etc.



Refinery

The hydrocarbons handled in refineries are all flammable and may give rise to explosive atmospheres depending on their flash point.



Pharmaceutical industry

Alcohols are often used as solvents in the production of pharmaceuticals. Agents and auxiliary materials may give rise to dust explosions.



Firefighting

Fire environment often comes with strong smoke, flammable matter and high temperature.

Accessories

Versatile UL certified
Accessories for Specific Tasks



Adapter PS1026(for non-hazardous area only) Strap Ro03 PC63 Data Cable (USB Port)

NCN011 Nylon Carrying Case (half-folded) (non-swivel) (black)

Pictures above are for reference only and may vary from actual products.

Specifications

	Gen	neral
Frequency Range		UHF: 350-400MHz,400-470MHz; VHF: 136-174MHz
Channel Capacity		256(PD502i)/512 (PD562i)
Zone Capacity		16 (PD502i)/32 (PD562i)
Channel Spacing		25/20/12.5KHz
Operating Voltage		7.4V
Battery		2000mAh (Li-lon)
Battery Life (5/5/90)		Analog/Digital: about 15.3 Hours/20 Hours
Weight		298g(PD502i UL913)/311g(PD562i UL913
Dimensions		115 X 54 X 35mm (PD502i UL913) 115 X 54 X 37mm
Frequency Stability		±0.5ppm(PD562i UL913)
Antenna Impedance		50Ω
	Rece	
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 @ 20 & 25KHz
	ETSI	60dB @ 12.5KHz/70dB @ 20 & 25KHz
Spurious Response Rejection	TIA-603	70dB @ 12.5/20/25KHz
	ETSI	70dB @ 12.5/20/25KHz
Inter-modulation	TIA-603	70dB @ 12.5/20/25KHz
	ETSI	65dB @ 12.5/20/25KHz
Hum & Noise		40dB @ 12.5KHz 43dB @ 20KHz 45dB @ 25KHz
Rated Audio Power Output		0.5W
Rated Audio Distortion		≤3%
Audio Response		
Audio Response	1	+1 ~ -3dB

Transmitter			
RF Power Output	VHF High power: 5W VHF Low power: 1W UHF High power: 4W UHF Low power: 1W		
FM Modulation	11K0F3E @ 12.5KHz 14K0F3E @ 20KHz 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 ±4.0KHz @ 20KHz ±5.0KHz @ 25KHz		
FM Hum & Noise	40dB @ 12.5KHz 43dB @ 20KHz 45dB @ 25KHz		
Adjacent Channel Power	60dB @ 12.5KHz, 70dB @ 20/25KHz		
Audio Response	+1 ~ -3dB		
Audio Distortion	≤3%		
Digital Vocoder Type	AMBE+2 TM		
Digital Protocol	ETSI-TS102 361-1,-2,-3		
Environmental			
Operating Temperature	-30°C~ +60°C		
Storage Temperature	-40°C~ +85°C		
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		

All specifications are subject to change without notice due to continuous development.











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