



DP980/985

Intrinsically Safe Digital Two-Way Radio



Intrinsically safe, protective to gas and dust explosion



Compliant to MIL810 C/D/E/F/G and IP68



Support analog conventional, digital conventional, MPT trunking and DMR trunking



2600mAh Li-polymer battery for longer battery life



Man Down and one-key alarm



1.8" TFT color LCD, striking blue case



DP985

DP980

DP980/985 Intrinsically Safe Digital Two-Way Radio

FEATURES

Protective to Both Gas and Dust Explosion

Fully compliant to Ex ib IIBT4 Gb and Ex ib IIIC T1 30 °C Db, 'intrinsic safety' type of explosion protection for both gas and dust.

Reliable

Comply with MIL-STD-810 C/D/E/F/G and IP68 standards, and provide excellent performance in demanding environment.

Large-capacity Li-ion Battery

Ultra-long life with 2600mAh Li-ion battery, safe and cost-effective.

Special and Elaborate Appearance

1.8" TFT color screen for clear display even under strong light, special blue case for easy recognition.

Secure Communication

Achieve higher security and confidentiality through 256-bit digital voice encryption and CPS read / write password.

Multiple Operating Modes

Support analog conventional, digital conventional, MPT trunking and DMR trunking to achieve smooth analog-to-digital migration.

Dual-slot Pseudo Trunking

Dynamic slot allocation improves the capacity utilization of transmission.

Tx Interrupt

You can interrupt transmission on current channel as needed to achieve prior call.

Bluetooth (Optional)

Built-in BT module working with BT earphone, BT ring and more to provide voice and data services.

Voice recording (optional)

Support ultra-long cyclic voice recording for diverse scenarios, e.g. monitoring and tracing safe production.

VOX

You can peak to transmit instead of pressing PTT key.

Positioning

Built-in GPS and BDS positioning modules working with dispatching system to provide real-time positioning and GIS services.

Roaming

Self-developed seamless handover technology to achieve uninterrupted communication.

Multiple alarm functions

Support Lone Worker, Man Down (optional), emergency alarm to ensure personal safety.

Improved Audio Quality

Delivering clear and loud voice communication even in noisy environments, DP980/DP985 includes advanced AI-based noise cancellation technology that decreases background noise by up to 30dB, ensuring reliable and intelligible voice calls.



Accessories



220VAC Adaptor



Belt Clip



Single Unit Charger



Battery



Antenna



Scrap



Programming Cable (Optional)



Earpiece (Optional)



Six-way Charger (Optional)



Bluetooth Earpiece (Optional)



Bluetooth PTT (Optional)



Remote Speaker Microphone (Optional)



3200mAh Battery (Optional)



Leather Case (Optional)



Speaker Microphone (Optional)

Application



Petrochemical Industry



Fire Control



Pharmaceutical Factory



Safety Supervision Department

Specifications

General	
Frequency Range	(01)VHF: 136~174MHz, (02)UHF: 400-470MHz, (05)UHF: 350~400MHz
Channel Capacity	1024
Zone Capacity	248
Channel Spacing	12.5kHz/20kHz/25kHz
Operating Voltage	7.5V DC±20%
Battery(Standard)	2600mAh, 3200mAh(Optional)

Receiver	
Frequency Stability	±0.5 ppm
Antenna Impedance	50Ω
Dimensions(H•W•D) (with standard battery, without antenna)	132mmx56mmx42mm
Weight(with standard battery)	410g
LCD Display	1.8inch, 5 rows
Sensitivity Analog	0.22μV(12dB SINAD)
Sensitivity Digital	0.22μV/BER5%
Selectivity TIA-603	60dB@12.5kHz, 70dB@20/25kHz(TIA-603)
ETSI	60dB@12.5kHz, 70dB@20/25kHz(ETSI)
Intermodulation	70dB@12.5kHz/25kHz(TIA-603) 65dB@12.5kHz/25kHz(ETSI)
Spurious Response Rejection	70dB@12.5/20/25kHz(TIA-603)
TIA-603 ETSI	70dB@12.5/20/25kHz(ETSI)
Hum and Noise	-40dB@12.5kHz, -45dB@20/25kHz
Rated Audio Power Output	1W
Audio Response	+1~-3dB
Conducted Spurious Emission	-57dBm@<1GHz, -47dBm@1GHz

Transmitter	
RF Power Output	(01)VHF/(02)UHF/(05)UHF:1-3W
FM Modulation	11K0F3E@12.5kHz; 14K0F3E@20kHz; 16K0F3E@25kHz
4FSK Digital Modulation	12.5kHz Data: 7K60F1D&7K60FX-D, 12.5kHz Voice: 7K60F1E&7K60FXE Combination of 12.5kHz Voice and Data: 7K60F1W
Modulation Limiting	±2.5kHz@12.5kHz, ±4.0kHz@20kHz, ±5.0kHz@25kHz
FM Hum & Noise	-40dB@12.5kHz, -45dB@20/25kHz
Adjacent Channel Power	60dB@12.5kHz, 70dB@20/25kHz
Audio Response	+1~-3dB
Audio Distortion	≤3%
Digital Vocoder Type	AMBE+2™
Digital Protocol	ETSI-TS102 361-1,-2,-3,-4

Environment Specifications	
Operating Temperature	-20°C ~ +60°C
Storage Temperature	-40°C ~ +85°C
ESD	IEC61000-4-2(Level4) ±4kV(Contact) ±8kV(air)
American Military Standard	MIL-STD-810-C/D/E/F/G
Dust & Water Protection	IP68 Standard
Humidity	Per MIL-STD-810 C/D/E/F/G Standard
Shock & Vibration	Per MIL-STD-810 C/D/E/F/G Standard
Anti-explosion levels	Ex ib IIB T4 Gb Ex ib IICT I 30 °C Db

GPS	
Accuracy specs are for long-term tracking (5 satellites visible at nominal -130dBm)	
TTF(Time To First Fix) Cold Start	<1 minute
TTF(Time To First Fix) Hot Start	10 seconds
Horizontal Accuracy	10m



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