



# DP515

## DMR Intrinsically Safe Portable Radio

- Ex ib IIB T3 Gb standard
- Designed for worker safety under dangerous environments
- Easy to operate

DP515 Ex meets Ex ib IIB T3 Gb standard and CCC certificate of China. Through strict and high reliability unit design, it enhances the worker safety for most hazardous environments such as explosive gas environments. The compact and non-slip design makes operation easy for workers and improve work efficiency.



# DP515 DMR Portable Radio

## Highlights and Features

### • Safe and Reliable

All design of DP515 is aimed at enhancing worker safety and communication reliability, including anti-static material, safe battery, loud speaker, audio accessory.

### • One-button Emergency Alarm

DP515 supports various emergency alarm modes through quick one-button pushing. Easy and quickly for workers to remind others while in accidents.

### • Man-down

With built-in Man-down module, DP515 can auto report alarm to others if worker is under danger and falls down.

### • Compact Size with Clear and Loud Voice

The application of 1W high-power loudspeaker and the technology of advanced digital voice encoding as well as forward error correction make it possible for the user to hear clear and loud voice even in the noisy environment.

### • High Capacity safe battery

DP515 is equipped with 2400mAh anti-explosion Li-ion battery, which can keep working for 20 hours under 5-5-90 duty cycle mode. It can also work longer with power-saving feature.

### • Improved Call Capacity with DMO 2-slot

The feature of DMO 2-slot realizes two group calls on the same frequency at the same time in Direct Mode. The call capacity can be increased without having to apply for additional frequency, thus greatly helping the user to save the cost.

### • ARC 40-bit Encryption Guarantees Safe Communication

DP515 supports ARC 40-bit encryption, which guarantees communication safety and prevent from being eavesdropped.

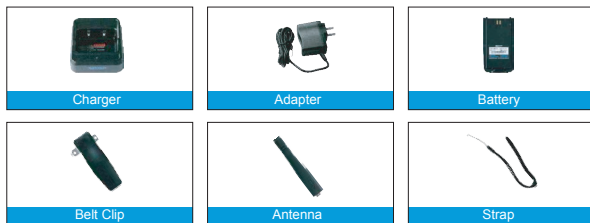
### • Lone worker

This feature is designed for worker who shall work alone in a dangerous environment.

### • Pseudo Trunk

This feature can improve frequency efficiency by allocating the free slot to a member and helps you to communicate timely in an emergency situation.

## Standard Accessories



## Optional Accessories



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## Specifications

General	
Frequency Range	400-470MHz
Channel Capacity	256
Zone Capacity	16
Channel Spacing	25KHz/12.5KHz(Analog);12.5KHz(Digital)
Operating Voltage	7.2V DC±20%
Battery	2400mAh Li-ion(Standard)
Battery Life (5-5-90 Duty Cycle, High TX Power)	Analog:24 hours@2400mAh Digital:20 hours@2400mAh
Frequency Stability	±0.5 ppm
Antenna Impedance	50Ω
Dimensions(H·W·D) (with standard battery, without antenna)	116mm*55mm*36mm
Weight(with standard battery)	280g(2400mAh)
Anti-explosion Level	Ex ib IIB T3 Gb(CNEX)
LCD Display	None

Receiver	
Sensitivity Analog	0.22μV@12dB SINAD
Digital	0.22uV@BER5%
Selectivity TIA-603 ETSI	60dB@12.5KHz, 70dB@25KHz(TIA-603) 65dB@12.5KHz, 70dB@25KHz(ETSI)
Inter-modulation	70dB@12.5KHz/25KHz(TIA-603) , 65dB@12.5KHz/25KHz(ETSI)
Spurious Response Rejection TIA-603 ETSI	70dB@12.5KHz/25KHz(TIA-603) 70dB@12.5KHz/25KHz(ETSI)
Hum and Noise	40dB@12.5KHz, 45dB@25KHz
Rated Audio Power Output	0.5W@ 16Ω
Rated Audio Distortion	≤3%(typically)
Audio Response	+1~-3dB
Conducted Spurious Emission	-57dBm@<1GHz, -47dBm@>1GHz

Transmitter	
RF Power Output	≤3.5W
FM Modulation	11KΦF3E@12.5KHz ; 16KΦF3E@25KHz
4FSK Digital Modulation	12.5KHz Data Only:7K6ΦFXD 12.5KHz Data&Voice:7K6ΦFXW
Modulation Limiting	±2.5KHz@12.5KHz, ±5KHz@25KHz
Radiated Spurious Emission	-36dBm < 1GHz, -30dBm > 1GHz
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+2™
Digital Protocol	ETSI-TS102 361-1,-2,-3

Environment Specifications	
Operating Temperature	-30 C ~ +60 C
Storage Temperature	-40 C ~ +85 C
ESD	IEC610000-4-2(Level4) ±4kV(Contact) ±8kV(air)
Dustproof & Waterproof	IP54

All specifications are tested according to applicable standards, and subject to change without notice due to continuous development.