Kirisun

DP810
Intrinsically Safe

DMR
DIGITAL MOBILE RADIO ASSOCIATION

Kirisun Intrinsically Safe DMR portable radio DP810 is specially designed and engineered to operate safely in hazardous environments providing additional safety and reliability keeping your workers safe in the toughest environments such as flammable gases and combustible dust and other hazards.

Ex   IECEx   IP68   MIL-STD

Highlights

Ergonomic Product Design
DP810 1.8-inch LCD color display enables excellent readability even when light conditions are bright. The large keypad design allows to operate device easily. The prominent appearance of "Kirisun Explosion-Proof Bright Blue" enhances device identification for crew under hazardous environment, ensures working and manufacture safety.

Redundancy with Separated Component PCB Design
All protection circuit components are approved by certification authorities providing high reliability and the highest level of redundancy ensuring safety even in harshest environment.

Silicone Encapsulating
The Silicone Encapsulating technology is applied both in DP810 main unit and battery, which efficiently separate internal circuit from liquid, dust, and harmful gas intrusion.
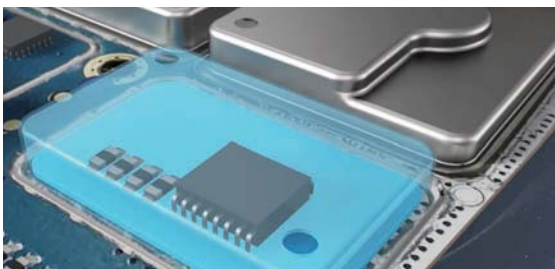
Anti-skid Design
Anti-skid design keeps user to hold the device tightly.

Electrostatic Free Design
The high performance electrostatic free material avoids spark caused by static electricity, thus protect hazardous environments from being ignited.

Special Battery Rail Guide
The guided rail battery installation allows the battery to be locked tightly with the main radio in case of dropping that might cause a spark.

High-Protective Desktop Charger
The desktop charger meets the strictest Intrinsically Safe design requirements, avoids external power supply destroying the battery or main unit to extend safety.

IP68
DP810 is designed based on IP68 standards, allowing use in harsh environments.

Features

Enhanced Safety
Kirisun DP810 ensures your safety with Built-in Man-down, GPS and Lone Worker functions, as well as a dedicated emergency button, which could be easily triggered in case of any accident, to send an alarm and initiate a voice call to a pre-programmed work fellow or group immediately.

High-Capacity and Safe Design Battery
1960mAh battery supplied in the standard package, operates up to 15-18 hours in 5-5-90 mode. The battery circuitry is fully encapsulated to prevent damaged by high temperature and humidity.

High Quality Audio
Extreme high volume (up to 130 decibels) ensures listening and speaking clearly in a noisy environment to satisfy well communication in heavy equipment, engines, trucks, and factories.

- **GPS Location**

  Integrated GPS enables real time tracking of your team members.

- **Encryption for Communication Security**

  It provides basic and enhanced encryption capability, including ARC4 and enhanced AES/DES up to 256 digit-encryption algorithms. It ensures secure communication on voice call and data transfer among team members.

- **Vibration**

  Vibration alert reminds reception of message and calls in noisy environment. Supports call alert vibration, incoming call vibration, incoming SMS vibration, emergency alarm vibration.

- **Transmit Interrupt**

  Enables users to interrupt another radio call to deliver critical communication exactly when and where it is needed.

- **Multiple Signaling**

  Multiple advanced analog signaling, including MDC-1200, DTMF, 2-Tone and 5-Tone, providing higher expansion capacity in current communication systems.

- **Dual-slot Pseudo Trunk**

  This feature can improve frequency efficiency by allocating free slot to a member providing you to communicate timely in emergencies.

- **DMR III and MPT Working Mode**

  It supports DMR III and MPT1327 working mode easily by license control.

Certification

ATEX is the European Union directive to which all two-way radios must comply if used in potentially explosive environments. It replaces the Cenelec classification in all European Union member states and EFTA countries. ATEX widely accepted all over the world.

II 2G Ex ib IIC T4
II 2D Ex ib IIIC T120℃ IP5X

IECEx Scheme is the future route to global compliance certification. Its aim is to harmonize standards to allow free movement of goods by establishing a world-wide accepted standard.

Ex ib IIC T4
Ex ib IIIC T120℃ IP5X

ATEX Gas Protection

T4=Device surface temperature will not exceed 135°C
IIC=Protection in gas groups up to IIC
ib=Type of intrinsic safety protection
Ex=Explosion-proof equipment
2G=Device category 2 equipment (Gas)
II=Gas group II for other environments (non-mining)

ATEX Dust Protection

IP5X=Ingress protection level for Dust Totally protected against dust
T120℃=Maximum temperature of device surface
IIIC= Protection in dust groups up to IIIC
ib=Type of intrinsic safety protection
Ex=Explosion-proof equipment
2D=Device category 2 equipment (Dust)
II=Gas group II for other environments (non-mining)

Applications

Oil Exploration Industry

Power Generating Companies

Storage of Hazardous Chemicals

Fire Fighting

Pharmaceutical Factory

Refineries