Portable Multi-Gas Detector

Diffusion type E110

APPLICATIONS

E110 is an intrinsically safe portable gas detector that can continuously detect the concentration of combustible gases, toxic gases, or oxygen. It is suitable for explosion-proof, toxic gas leakage rescue, underground pipelines and other places, and can effectively ensure that the life safety of workers is not violated, and production equipment is not damaged.

The shell of the detector is made of high-strength engineering plastic and composite anti slip rubber, which has high strength, good hand feel, and is waterproof and dust-proof.

TECHNICAL FEATURES

- Advanced ultra-low power MCU
- Ultra wide viewing-angle graphic LCD display
- Self-check of combustible gas sensor fault
- Real-time clock display
- Automatic calibration function to reduce detection errors
- Audible, visual, and vibration alarming signals
- Multiple alarms of Low-alarm, High-alarm, TWA, STEL, over-range, and battery undervoltage alerts
- Capable of parameter settings, log storage, export, and other functions (optional)
- Self-check function after power on (self diagnosis and repair)
- Password management to avoid wrong operation
- ATEX and IECEx approved



E110
Diffusion type

LoRa

4G



APP
Demonstration

Portable Multi-Gas Detector

Diffusion type E110

APPLICATION SCENARIOS



Petroleum and Petrochemicals



Emergency rescue



Offshore platform



Pharmaceutical
and Chemical Industry



Industrial waste gas



Incineration power generation

PARAMETERS

Detection method	Diffuse naturally	Power source	DC 3.7V rechargeable Lithium battery
Sensor type	Catalytic, electrochemical etc.	Working time	≥8h (continuous working after full charge; @20℃ no alarming state)
Display deviation	**Combustible:** ±5 %FS **CO:** Absolute deviation: ±5 ppm Relative deviation: ±10% **H2S:** Absolute deviation: ±2 ppm Relative deviation: ±10% **O2:** ±2%F.S. **Other gases:** depends on the specific sensor. Please contact the dealer or manufacturer.	Charging environment	Temperature: 0℃～45℃ Humidity: < 95%RH (no condensation) Air pressure: 90kPa～110kPa
		Sensor lifespan	2 years
		Ingress	IP67/IP68
		protection	Note: IPX8: 1 m water depth for 60minutes
		Ex-proof grade	Catalytic sensor: Ex ia IIC T3 Gb / Ex ib IIIC T195℃ Db Other sensors: Ex ia IIC T4 Ga / Ex ib IIIC T130℃ Db
Response time	T_{90}<30s		
Indication method	LCD screen display of real-time data and system status; Visual/audible/vibration indication of alarm, fault and low voltage.	Certificate	ATEX and IECEx by CSA
		Dimension	97×53×22.5mm
Comm. method	Bluetooth/USB cable (optional)	Weight	About 115g
Working environment	Temperature: -20℃~55℃ Humidity: <95%RH (no condensation) Air pressure: 90kPa~110kPa	Featured functions	Parameter settings, log storage & export functions (optional)