Datasheet

Portable Maintenance-Free Single Gas Detector

P10 Series

Description

The P10 series is a new generation of portable maintenance-free single gas detector developed and manufactured by GDS INSTRUMENTS. It is powered by lithium battery. This product can provide 24 months maintenance-free period, high stability and long service life with high-performance electrochemical sensor and ultra-low power consumption circuit design.

The P10 series is used to detect carbon monoxide, hydrogen sulfide, oxygen, chlorine, ammonia and sulfur dioxide in industrial sites according to different sensors.

The P10 series adopt composite material with high strength and toughness, and has high waterproof and dustproof performance, which providing the product with the highest industrial standard level of protection, protection grade up to IP68.

The P10 series is globally certified to be used in various harsh environments such as petrochemical, chemical, metallurgical and environmental protection, and the intrinsically safe grade is EX ia IIC T4 Ga, applicable for zone 0.

Features

- Maintenance-free design, saving users' expenses
- Small size and light weight, easy to wear
- One-button operation, extremely easy, no training required
- Intrinsically safe explosion-proof design, can be used in zone 0
- IP68 protection, withstand 1 hour of immersion in water
- Withstand 3 meters’ drop
- Visual, audible and vibration alarms
- IR data communication function (Max version)

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Specifications

System Specifications

DISPLAY	Dot-matrix LCD display
GAS TYPE	Toxic gases
DETECTION PRINCIPLE	Electrochemical
SENSOR LIFE	2-3 years
DETECTION METHOD	Diffusion

Environmental Specifications

TEMPERATURE RANGE	-20°C～+50°C
HUMIDITY RANGE	0～95%RH (Non-condensing)
INGRESS PROTECTION	IP67(Passed CNEX test)

Mechanical Specifications

MATERIAL OF HOUSING	Composite
WEIGHT	100g
DIMENSIONS	86×49×20mm
DROP RESISTANCE	3 meters

Electrical Specifications

POWER	3.6V lithium battery
WORKING TIME	＞9000 hours (25°C, electrochemical sensor)
ALARMS	95dB audible, LED visual and vibration
OPERATING MODE	One button

Sensor Specifications

GAS	RANGE	RESOLUTION	RESPONSE TIME
CO	0-500ppm	1ppm	⩽20s
H2S	0-100ppm	1ppm	⩽20s
O2	0-25%vol	0.1%vol	⩽20s
SO2	0-100ppm	1ppm	⩽20s
NH3	0-100ppm	1ppm	⩽60s
Cl2	0-20ppm	0.1ppm	⩽60s

*For other ranges, please consult your local GDS INSTRUMENTS representative

Approvals

CNEX	Ex ia IIC T4 Ga
CPA	Include CO, H2S, SO2

Product Configuration

P10 Series Portable Gas Detector

Calibration cover

Manual

*For standard configuration, please refer to the actual product provided by the factory.
And for more accessories, please consult your local GDS INSTRUMENTS representative.

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