

Single-Gas Personal Detector

PT-XD100



TOXIC/FLAMMABLE GAS DETECTION

1 Product description :

Portable Single-Gas Personal Detector works in a continuous way of detection of toxic gas concentration, as intrinsically safe equipment, it's suitable for explosive hazardous places.

2 Features and benefits :

- ✦ Key component failure detection function, monitor the normal working condition:
- ✦ Low consumption, long standby, rechargeable lithium battery design.
- ✦ Normal detection power consumption is less than 500 μ A
- ✦ Battery power consumption 650mAH
- ✦ Sustainable at least 50 days (24 hours a day).
- ✦ No power consumption if off
- ✦ Temperature compensation function:
- ✦ Ensure accurate measurement over the entire operating temperature range.
- ✦ Display the field temperature
- ✦ Zero adjustable setting and full scale calibration without open it
- ✦ With low/high limit, STEL and TWA etc. alarm functions, easily rewrite the alarm point
- ✦ Sound, light, vibration 3 kinds of alarm
- ✦ Silence function
- ✦ LCD display, continuously shows real-time gas concentration, background light automatically open
- ✦ CMC&explosion-proof certificate

3 Gas types and measurement range:

NO	Gas types	measurement range	Low	High	STEL	TWA
1	Carbon monoxide	(0~1000) μ mol/mol	35	200	200	35
2	Hydrogen Sulfide	(0~100) $\times 10^{-6}$ μ mol/mol	10	15	15	10
3	Oxygen	(0~30.0) %V/V	19.5% deficit	19%deficit	-	-
			23% Excessive	23.5% Excessive	-	-
4	Ammonia	(0~100) $\times 10^{-6}$ μ mol/mol	25	50	30	25
5	Chlorine	(0~50) $\times 10^{-6}$ μ mol/mol	0.5	1	1	0.5
6	Hydrogen cyanide	(0~30) $\times 10^{-6}$ μ mol/mol	4.7	10.0	10.0	4.7
7	Nitric oxide	(0~100) $\times 10^{-6}$ μ mol/mol	25	25	25	25
8	Nitrogen dioxide	(0~50) $\times 10^{-6}$ μ mol/mol	2.0	5.0	2.0	5.0

Please be noted: Other gas types / measurement range/ alarm concentration can be customized.

TOXIC/FLAMMABLE GAS DETECTION

4 Technical parameters:

Alarm current:	≤100mA
Normal current:	≤0.5mA
Sensor type:	Electrochemical equation
Gas sampling mode :	Diffusion type
Typical response time:	Ammonia, hydrocyanic acid:160s Oxygen: 20s Other toxic gases: 60 s
Battery type:	Rechargeable lithium battery
Battery parameters:	Nominal voltage 3.7V, Nominal capacity 650mAH
Charging temperature range	0°C~40°C
Sound alarm	80dB/10cm
Indicator alarm:	Failure: yellow always Alarm: red flashing
Vibration alarm:	Built-in
Display:	LCD with backlighting
Humidity	15%-95%, no condensation
Operating temperature	-20°C~55°C
Dimensions	98mm×58mm×28mm
Weight	130g

5 Application:

- ⊕ Oil & Petrochemical
- ⊕ Metallurgy
- ⊕ Chemical industry
- ⊕ Environmental protection
- ⊕ Papermaking
- ⊕ Printing and dyeing
- ⊕ Municipal
- ⊕ Research & Education
- ⊕ National defense