



BH-90A Single Gas Detector

BH-90A portable single gas detector can make continuous detection to combustible and toxic gases. It is suitable for combustible and toxic gas leakage detection in underground pipe or mines, and keeps the workers safe, prevents the facilities from being destroyed.

The detector, adopting excellent-quality sensor, makes detection in the way of natural diffusion. It has good sensitivity and reproducibility. The detector adopts embedded MCU controller, easy to operate.

The shell adopts special high strength material and anti-scratch rubber, with the characters of water-proof and dust-proof.

Specification:

Gas Detected

Combustible gas (CH₄,C₃H₈,H₂) and toxic gas, oxygen, Other rare toxic gas like ammonia, NO, PH₃, NH₃, NO₂, HCN, SO₂ etc also available, Can be specified by the Customer in advance.

- *Advanced MCU control with low power consumption;
- *Adjustable low and high alarm level;
- *Adjustable calibrating level;
- *High concentration protection for combustible gas;
- *Self test for the combustible gas sensor;
- *Low battery indication;
- *Self-adjustment function
- *Visual and audible alarm with vibration;
- *Advanced self-examination and self-renovation function
- *Password management to avoid wrong operation;
- *Explosive proof housing.

Accuracy $\leq 5\%$ F.S.

Response time $T < 30s$

Indication LCD indicates the time and state Indication of alarm, fault and low voltage with LED, sound, vibration

Operating Environment Operating temperature $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$ (for combustible gas)

Operating temperature: -20°C~50°C
(for toxic gas)

Humidity	<95%RH non-condensing
Operating voltage	DC3.7V Li battery 1500mAh
Working time	≥8h continuously
Charging time	4h~6h
Sensor life	2 years
Protection category	IP65
Weight	about 130g (including battery but without accessories)
Dimension	100mm×60mm×30mm

Model	Range	Resolution	L-alarm	H-alarm
CO	0-100ppm	1ppm	50ppm	150ppm
O2	0-30%vol	0.1%vol	19.5%vol	23.5%vol
H2	0-100ppm	1ppm	50ppm	150ppm
H2S	0-100ppm	0.1ppm	10ppm	20ppm
CH4	0-5%vol	0.01%vol	1%vol	2.5%vol
C2H4O	0-100ppm	1ppm	10ppm	20ppm
EX	0-100%LEL	1%lel/1%vol	20%LEL	50%LEL
HC	0-2%vol	0.01%vol	0	0
C2H6O	0-100ppm	1ppm	10ppm	20ppm
NH3	0-100ppm	1ppm	10ppm	20ppm
CL2	0-50ppm	0.1ppm	5ppm	10ppm
O3	0-20ppm	0.1ppm	5ppm	10ppm
SO2	0-20ppm	0.1	5ppm	10ppm
PH3	0-20ppm	0.1ppm	5ppm	10ppm

CO2	0-5%vol	0.01%vol	1%vol	2%vol
NO	0-250ppm	1ppm	50ppm	150ppm
NO2	0-20ppm	0.1ppm	5ppm	10ppm
HCN	0-50ppm	0.1ppm	5ppm	10ppm
HCL	0-50ppm	0.1ppm	5ppm	10ppm
HF	0-10ppm	0.1ppm	3ppm	5ppm
C7H8/C8H10	0-100ppm	1ppm	10ppm	20ppm