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VASTHI
INSTRUMENTS

Portable Single Gas Detector



VS 70xx

Portable Single Gas Detector

Detector Structure

The main shell, circuit boards, batteries, display, sensors, chargers of the component

Working principle

Electrochemical or Catalytic sensor

Specifications:

Gas Detected	Combustible gas (CH ₄ , C ₃ H ₈ , H ₂) and toxic gas, oxygen, other rare toxic gas like ammonia, NO, PH ₃ , NH ₃ , NO ₂ , HCN, SO ₂ etc also available, can be specified by the customer in advance
Accuracy	+2 FS.
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°C-70°C (for combustible gas) -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 x 6mm x 30mm

Features:

1. Advanced MCU control with low power consumption
2. Adjustable low and high alarm level
3. Adjustable calibrating level, High concentration
4. protection, Self test for the gas sensor
5. Low battery indication
6. Self-adjustment function
7. Visual and audible alarm with vibration
8. Advanced self-examination and self-renovation function
9. Password management to avoid wrong operation; Explosive proof housing

Portable Single Gas Detector

Model	Range	L-alarm	H-alarm
CH ₄	0-100%LEL	20%LEL	50%LEL
C ₃ H ₈	0-100%LEL	20%LEL	50%LEL
H ₂	0-100%LEL	20%LEL	50%LEL
H ₂	0-1000ppm	35ppm	250ppm
H ₂ S	0-100ppm	10ppm	15ppm
H ₂ S	0-100ppm	10ppm	20ppm
co	0-1000ppm	35ppm	200ppm
co	0-1000ppm	30ppm	60ppm
C ₂ H ₄ O	0-20ppm	10ppm	15ppm
C ₂ H ₄	0-100%LEL	20%LEL	50%LEL
C ₂ H ₄	0-20ppm	5ppm	10ppm
2	0-30%vol	19.5%vol	23.5%vol
C ₂ H ₅ OH	0-100%LEL	20%LEL	50%LEL
NH ₃	0-100ppm	25ppm	50ppm
CL ₂	0-20ppm	5ppm	10ppm
3	0-20ppm	5ppm	10ppm
3	0-10ppm	2ppm	5ppm
\$O ₂	0-20ppm	2ppm	5ppm
\$O ₂	0-100ppm	2ppm	5ppm
PH ₃	0-20ppm	0.3ppm	5ppm
PH ₃	0-5ppm	0.3ppm	2ppm
CO ₂	0-5000ppm	1000ppm	2000ppm
CO ₂	0-5000ppm	1000ppm	2000ppm
NO	0-250ppm	20ppm	50ppm
NO ₂	0-20ppm	5ppm	10ppm
HCN	0-500ppm	10ppm	20ppm
HCN	0-50ppm	10ppm	20ppm
HCL	0-50ppm	10ppm	20ppm
CH ₂ O	0-10ppm	2ppm	5ppm
voe	0-100ppm	20ppm	50ppm
C ₆ H ₆	0-100ppm	20ppm	50ppm



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Sensors supported

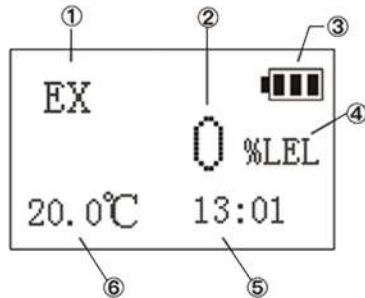
Can detect more than 30 kinds of gases
can customize flexibly according to users need
(detect 4 different gases in one unit)
normally detect combustible, O₂, H₂S, CO gases

Ranges

Combustible : 0~100%LEL
O₂ : 0-30%VOL
H₂S : 0~100PPM
CO : 0~1000PPM

Resolution

Combustible : 1%LEL
O₂ : 0.1gVOL
H₂S : 1PPM
CO : 1PPM



1. Gas display
2. Gas concentration content display
3. Battery power display
4. Unit power display
5. Time display
6. Temperature display



ORDERING INFORMATION

VS(series)-70(model) xx (gas)

Example: VS-70 O₂



VASTHI INSTRUMENTS

Plot No. 21 & 22, Block No. 24,
Phase - 4, AutoNagar,
Guntur 522 001, Andhra Pradesh
Phone : +91 7382708685
Email: info@vasthi.com,