

**IMR EX440 SMART SENSOR
GAS DETECTOR****MAIN FUNCTION AND FEATURES**

- Intrinsically safe
- Smart interchangeable module
- Catalytic, electrochemical, infrared, PID sensor selectable
- Built-in pump optional
- Storage for 100,000 detection records
- Calibration point adjustable
- Two alarm levels for each channel
- STEL & TWA alarm for toxic gases
- Visual, audible, and vibration alarms
- Data uploading
- Password management
- Self-test when power on
- Modular design for ease of maintenance

IMR EX440 TECH SPECIFICATIONS

- Target gas: O₂, toxic gas, combustible gas
- Detecting method: Natural diffusion
- Response Time:
Semi-conductor, Catalytic, Thermal Conductivity $t_{90} < 30s$
Oxygen, Carbon Monoxide, Hydrogen Sulfide $t_{90} < 30s$
Other Sensors $t_{90} < 120s$
- Working Conditions:
Combustible Gas: $-40^{\circ}C \sim 70^{\circ}C$
Toxic Gas: $-20^{\circ}C \sim 50^{\circ}C$
Working humidity $\leq 95\%RH$ non-condensating
- Power Source: Lithium battery (DC3.7V 6600mAh)
- Charging time: 4 ~ 6hours
- Continuous working time:
 ≥ 30 hours (for combustible gas and toxic gas)
 ≥ 300 hours (for toxic gas under temperature of $20^{\circ}C$)
- USB connectivity for data transfer
- Explosion-proof grade: EXIA II CT4
- Ingress protection: IP66
- Dimensions: 147mm x 76mm x 37mm
- Weight: about 350g



IMR EX440 SMART Sensor gas detector

IMR EX440 ACCESSORIES
FLEXIBE GAS PROBE

- Used to collect gas samples in confined areas
- Telescoping probe
- Collection tube
- Probe length: 100 – 1150mm
- Hose length: 1500mm
- Item# EX660-Gas Probe


PUMP

- Use to collect gas samples in confined spaces
- Calibration
- Item# EX440-Calibration Cover


Caring Case

- Holds all accessories including probe
- Item# EX660-Case

Gas	Detection Range	L-Alarm Point	H-Alarm Point	TWA	STEL
1) Basic Unit with 4 sensors – see table below for ranges					
CO/H2S/O2	N/A	N/A	N/A	N/A	N/A
CH4	0-100% LEL	20% LEL	50% LEL	N/A	N/A

2) Unit without sensors – select up to 4 below

Sensor Options

Gas	Detection Range	L-Alarm Point	H-Alarm Point	TWA	STEL
C3H8	0-100% LEL	20% LEL	50% LEL	N/A	N/A
O2	0-30% vol.	19.5% vol.	23.5% vol.	N/A	N/A
H2S	0-100 ppm	10 ppm	15 ppm	10 ppm	15 ppm
CO	0-1000 ppm	35 ppm	200 ppm	35 ppm	200 ppm
CO	0-2000 ppm	35 ppm	200 ppm	35 ppm	200 ppm
NH3	0-100 ppm	25 ppm	50 ppm	25 ppm	35 ppm
CL2	0-20 ppm	5 ppm	10 ppm	0.5 ppm	1.0 ppm
SO2	0-100 ppm	2 ppm	5 ppm	2 ppm	5 ppm
CO2	0-5000 ppm	1500 ppm	2000 ppm	N/A	N/A
CH4	0-5% vol.	0.5% vol.	1% vol.	N/A	N/A
H2	0-100% LEL	20% LEL	50% LEL	N/A	N/A
H2	0-1000 ppm	35 ppm	250 ppm	N/A	N/A
NO	0-100 ppm	25 ppm	50 ppm	25 ppm	50 ppm
NO2	0-20 ppm	5 ppm	10 ppm	5 ppm	10 ppm
PID	0-100 ppm	PID Sensor Module for VOC			
PH3	0-20 ppm	5 ppm	10 ppm	5 ppm	10 ppm
HCN	0-100 ppm	5 ppm	10 ppm	5 ppm	10 ppm
HCI	0-20 ppm	5 ppm	10 ppm	5 ppm	10 ppm