

Portable Gas Monitor

Thermo Scientific Innova Series

The Innova gas monitors are designed to protect workers from hazardous gases in confined spaces and other industrial work sites. The Innova features a powerful built-in pump, rugged electronics for the harshest conditions, simple operation, quick calibration, and robust sensors for long life. The Innova Series portable gas monitors are available in several different gas combinations.

FEATURES

Innova ST™ – One, two, three, or four gases

This unit can be configured to monitor up to four gases in several combinations, including the detection of hydrocarbons in the % Vol, % LEL, or ppm range, oxygen content, and a choice of one or two toxics.

- Monitors hydrocarbons in LEL or ppm ranges
- Convenient top-mounted switches make operation and calibration simple
- Easy replacement of batteries and sensors
- One-button calibration

Innova FV™ – Fuel Vapor

Innova FV is designed to measure combustible fuel vapors in aircraft wing tanks and fuel storage areas.

- Extra sensitive ppm combustible range (0-1,000 ppm) in 10 ppm increments
- Humidity resistant, combustible sensor
- Calibrated with hexane to represent fuel vapors
- Dual mode operation can distinguish between methane or natural gas and other volatile combustibles

Innova LS™ – Land Surveyor

The Innova LS is designed to test for methane and other gases. This multi-gas monitor detects methane in the ppm, % LEL, and % Vol. ranges, oxygen, and one toxic gas (either carbon monoxide or hydrogen sulfide).

- Monitoring of methane in two optional range sets
- Autorange adjusts to the correct range as methane concentrations increase, allowing hands-free operation

Innova XT™ – Transformer

The Innova XT tests for the presence of combustible gases in the inert head-space of power transformers.

- Detection in ppm or LEL is standard
- Significant cost savings over dissolved gas analysis (DGA)
- All necessary accessories (dilution fitting, probe, and Tedlar bag) come standard with each unit

Innova SV™ – Soil Vapor

The Innova SV is designed for applications such as soil remediation and bore hole monitoring. Designed to detect total hydrocarbons (including methane) in percent LEL or ppm.

- Dual mode operation can distinguish between methane or natural gas and other volatile combustibles
- Extra sensitive ppm combustible range (0-1,000 ppm) in 10 ppm increments
- Humidity resistant combustible sensor is not affected by changes in relative humidity (RH)



CALL GEOTECH TODAY (800) 833-7958

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SPECIFICATIONS

MONITOR

Sampling Method:	Sample-draw, internal pump
Response Time:	90% in 30 seconds 90% in 50 seconds (HCN) 90% in 60 seconds (NH ₃)
Accuracy:	
LEL	±5% of reading ppm, Cl ₂ , CO, HCN, H ₂ S, NH ₃ , NO, NO ₂ , PH ₃ , SO ₂
SO ₂	±10% of reading
O ₂	±0.5% Volume • % by Vol. CH ₄ ±10% of reading
Repeatability:	
LEL	±2% of reading ppm, Cl ₂ , CO, HCN, H ₂ S, NH ₃ , NO, NO ₂ , PH ₃ ,
SO ₂	1% by Volume CH ₄ ±5% of reading
O ₂	±0.2% Volume
Operating Temperature:	-4°F to 113°F (-20°C to 45°C)
Humidity Range:	0 to 95% RH, non-condensing
Alarms:	<ul style="list-style-type: none"> • User defined, programmable alarm levels • Latching or self-resetting modes • Low battery, low flow, or sensor failure • Two levels of alarm with audible and visual indication to warn of unsafe gas levels

LCD Display:	<ul style="list-style-type: none"> • Real-time gas concentrations • Date and time • Battery capacity • Alarm set points • Back light on demand • TWA, STEL, minimum & maximum readings
Power Sources:	Four "D" alkaline or NiCd batteries
Battery Life (20°C/ 68°F):	
Alkaline	24 hours at 68°F (20°C)
NiCd	12 hours at 68°F (20°C)
Dimensions:	10" L x 6" H x 5" W (254mm x 152mm x 127mm)
Weight:	Approximately 5 lbs. (2.25 kg)
Casing Materials:	High impact, chemical, and RF resistant Xenoy® (polycarbonate-polyester) plastic
Splash Resistance:	Water resistant, gasketed housing
Approvals:	<ul style="list-style-type: none"> • Certified intrinsically safe for Class I, Groups A, B, C, and D to US and Canadian standards • LCIE certified, EEx ia IIC T4 hazardous locations
Warranty:	One year (materials and workmanship)

SENSORS

Gas	Formula	Standard Range	ST	FV	LS	SV	XT
Ammonia	NH ₃	0 to 100 ppm in 1 ppm increments	✓				
Carbon Monoxide	CO	0 to 300 ppm in 1 ppm increments	✓		✓		
Chlorine	Cl ₂	0 to 10.0 ppm in 0.1 ppm increments	✓				
Combustible	HC	0 to 100% LEL in 1% increments 0 to 1,000 ppm in 10 ppm increments 1 to 100% Volume in 1% increments 0 to 10,000 ppm in 20 ppm increments	✓	✓ ✓	✓ ✓ ✓	✓ ✓	✓ ✓
Hydrogen Cyanide	HCN	0 to 30 ppm in 1 ppm increments	✓				
Hydrogen Sulfide	H ₂ S	0 to 200 ppm in 1 ppm increments	✓		✓		
Methane	CH ₄	0 to 5% Vol. in 0.1% increments (specify range with order) 0 to 100% Volume in 1% increments 0 to 10,000 ppm in 20 ppm increments 0 to 100% LEL in 1% increments	✓ ✓ ✓		✓ ✓ ✓		
Nitric Oxide	NO	0 to 100 ppm in 1 ppm increments	✓				
Nitrogen Dioxide	NO ₂	0 to 10.0 ppm in 0.1 ppm increments	✓				
Oxygen	O ₂	0 to 30.0% Vol in 0.1% increments	✓	✓	✓		✓
Phosphine	PH ₃	0 to 3.00 ppm in 0.1 ppm increments	✓				
Sulfur Dioxide	SO ₂	0 to 10.0 ppm in 0.1 ppm increments	✓				

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