SenSmart 1300M/3300M/ 5300M 6300M

"The Art of Gas Detection" - *Built with our Proven Millenium Gas Monitor*

SenSmart 3300M

SenSmart 5300M

SenSmart 6300M

The microprocessor based intelligent **SenSmart 1300M** infrared gas detector is ideally suited for use in harsh environments and where conventional catalytic detectors is prohibitive. These infrared gas detectors perform reliably in the presence of silicone and other catalyst poisoning agents and operate in oxygen free environments or where high background gas levels are present.

The **SenSmart 1300M** can directly connect to **SenSmart 3000**, **SenSmart 5000 or SenSmart 6000** transmitters to have local display and other advanced functions from those transmitters. Please refer to **SenSmart 3000**, **SenSmart 5000 or SenSmart 6000** brochures for more details.

Diffusion "Smart" Sensor with
Splash Guard and Cal Port

FEATURES HIGHLIGHT

- Virtually maintenance free infrared sensing technology
- Low long term cost of ownership, long operating life with 5 year warranty on transmitter
- Rugged stainless steel construction with fast response time
- Requires no routine calibration to ensure proper operation
- Fault indications for all failure states
- Patented self-compensating optics with no moving parts
- Heated optical chamber prevents condensation
- A multi-layered filtering system protects optics from dirt and water ingress

- Straight optical path eliminates the need for reflective surfaces, such as mirrors or beam splitters
- Performs well in the presence of hig concentrations or constant background levels of hydrocarbons and in oxygen depleted atmospheres
- Highly resistant to poisoning and etching
- Standard 4-20 mA output (source)

SPECIFICATIONS

Detection Method	Diffusion – Optional sample draw (requires a minimum of 1 liter per minute flow rate) Output (analog): 4-20mA (Source Type), max 1000 Ohm
Response Time	T50 < 5 seconds, T90 < 10 seconds
Construction	316 Stainless Steel
Accuracy	+/- 3% LEL, 0 to 50% LEL (Lower Explosive Limit)
Operating Temperature Rating	-40º to + 70º C at 0 to 99% RH (non-condensing)
Operating Range	18 to 32 VDC measured at the detector head
Max Current Draw	(at 24VDC): Average: 210mA Peak: 400mA
Dimensions	5 lbs (2.3 Kg.)
Approvals	C22.2 No. 152-M1984 (R1997) CSA Certified Class 1, Division 1, Groups B, C and D
Warranty	5 year limited warranty For sensor warranty see sensor specifications sheet.

ORDERING INFORMATION

Unit Status Chart

4-20 mA	Normal measuring mode
0.0 mA	Unit Fault
0.2 mA	Reference Channel Fault
0.4 mA	Analytical Channel Fault
0.8 mA	Unit Warm up
1.0 mA	Optics Fault
1.2 mA	Zero drift fault
1.6 mA	Calibration fault
2.0 mA	Unit spanning
2.2 mA	Unit zeroing
4.0 mA	Zero gas level
5.6 mA	10% LEL
8.0 mA	25% LEL
12 mA	50% LEL
16 mA	75% LEL
20 mA	100% LEL
20.1-23 mA	Over range (> 100 %)

Available Gases

Acetone	Iso-Butane
Acetylene	Isopropryl Alcohol (IPA)
Butyl Acetate	Jet Fuel
Carbon Dioxide	JP4
Cyclopentane	JP5
DF 2000	JP8
Diesel	Methane
Dimethyl Ether	Methanol
Ethane	Methyl Amyl Ketone
Ethanol	n-Butane
Ethylene	Pentane
Gasoline	Propane
Green Earth	Propane with Methane rejection
Hexane	Propylene
Kerosene	Toluene