

Single Point Gas Monitor, SafeTNet 100

Continuous monitoring control system

Available Thermo Scientific Gas Transmitters:



Standard Transmitter



Sample-Draw Transmitter



FX-SMT (LEL)
(combustible)



FX-SMT
(oxygen/toxic)



Key Features

- Low maintenance, simple operation
- Two user-settable alarms points and replays for activating external devices
- Reliable, field-proven detectors (sample-draw or diffusion style available)
- Durable weather and corrosion proof, NEMA 4X enclosure
- Industry standard 4 to 20 mA output
- External amplifier models, with internal amplifier versions available

The Thermo Scientific Single Point Gas Monitor, SafeTNet 100 is the ideal instrument for continuous monitoring of combustible gases, toxic gases or oxygen at one location for the protection of workers and property.

Microprocessor-controlled electronics provide simple operation and complete flexibility for selecting alarm logic and alarm thresholds. Thus, it is highly suitable for a wide variety of industrial and commercial applications.

Optional Accessories Include:

- Duct mounting adapter (*combustibles*)
- Explosion proof, air aspirated pump (*combustibles*)
- Line cord with cable bushing (8 ft.)
- DC power supply with backup battery
- Signal horn, 115 VAC (*weatherproof, non-hazardous areas*)
- Red beacon, 115 VAC (*non-hazardous areas*)
- Calibration kits

Single Point Gas Monitor, SafeTNet 100

To maintain optimal product performance, you need immediate access to experts worldwide, as well as priority status when your air quality equipment needs repair or replacement. We offer comprehensive, flexible support solutions for all phases of the product life cycle. Through predictable, fixed-cost pricing, our services help protect the return on investment and total cost of ownership of your Thermo Scientific air quality products.

Product Specifications

Power		Gas	Formula	Standard Range
<i>AC Input</i>	100 to 130 VAC, 50/60 Hz or 200 to 260 VAC, 50/60 Hz (specify input when ordering)			
<i>DC Input</i>	12 to 16 Vdc (1A maximum)	Ammonia	NH ₃	0 to 100 ppm
Output		Arsine	AsH ₃	0 to 1.00 ppm
<i>Recorder</i>	4 to 20 mA, 400 Ohm impedance maximum	Carbon Monoxide	CO	0 to 500 ppm
<i>Alarm Relays</i>	One set of SPDT (Form C) contacts for each alarm level (Warn/Alarm and Fail conditions)	Chlorine	Cl ₂	0 to 5.00 ppm
<i>Audible Alarm</i>	Case-mounted buzzer, 94 db at 1 ft., pulsing for Warn and Alarm, continuous for Fail	Chlorine Dioxide	ClO ₂	0 to 2.00 ppm
<i>Display</i>	Three digit, red LED	Combustibles	several	0 to 100% LEL
<i>Status Indication</i>	Four color coded LED's	Combustibles	several	0-5000 ppm
<i>Fail</i>	Yellow - Sensor malfunction, down scale reading, open sensor wiring	Diborane	B ₂ H ₆	0 to 1.00 ppm
<i>Pilot</i>	Green - Instrument powered on	Fluorine	F ₂	0 to 10.0 ppm
<i>Warn</i>	Orange - Low level threshold exceeded	Hydrogen Chloride	HCl	0 to 30.0 ppm
<i>Alarm</i>	Red - High level threshold exceeded	Hydrogen Cyanide	HCN	0 to 50.0 ppm
Controls		Hydrogen Fluoride	HF	0 to 15.0 ppm
<i>Potentiometer</i>	Zero, Span, Warn and Alarm levels. Alarm delay adjustment	Hydrogen Sulfide	H ₂ S	0 to 100 ppm
<i>Push Buttons</i>	Case-mounted external reset switch, resets latched alarms and acknowledges Warn alarms. Internal calibration alarm disable (5 min.) Warn and Alarm level display, alarm delay display	Nitric Oxide	NO	0 to 100 ppm
<i>Alarm Logic</i>	Latching or auto-resetting (switch selected). Increasing or decreasing alarm (switch selected). Time delay 0-16 sec. (adjusted by potentiometer)	Nitrogen Dioxide	NO ₂	0 to 20.0 ppm
<i>DIP Switches</i>	Alarm logic and relay operation	Oxygen	O ₂	0 to 30.0% Vol.
Operating Temp.	-4 ⁰ F to 113 ⁰ F (-20 ⁰ C to 45 ⁰ C)	Ozone	O ₃	0 to 1.00 ppm
Relative Humidity	0 to 95% RH, non-condensing	Phosphine	PH ₃	0 to 1.00 ppm
Physical Dimensions	10.94" (278mm) (L) x 8.5" (216mm) (W) x 6.5" (165mm) (H), 6.2 lbs. (2.3 kg)	Silane	SiH ₄	0 to 15.0 ppm
Enclosure Rating	NEMA 4X, gray fiberglass with blue panel overlay	Sulfur Dioxide	SO ₂	0 to 20.0 ppm
Conduit	3/4 in. NPT, two hubs provided			
Wire Terminations	Screw type terminal blocks, 12-gauge wire maximum			
Area Classification	General purpose (combustible gas detectors can be mounted remotely in hazardous areas)			
Approvals	Combustible gas sensor (part# 61-0101) approved for Class I, Division 1, Groups A, B, C and D			

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This product is manufactured in a plant whose quality management system is ISO 9001 certified.

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