

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

		Gas	Formula	Standard Range
Power				
<i>AC Input</i>	100 to 130 VAC, 50/60 Hz or 200 to 260 VAC, 50/60 Hz (specify input when ordering)	Ammonia	NH ₃	0 to 100 ppm
<i>DC Input</i>	12 to 16 Vdc (1A maximum)	Arsine	AsH ₃	0 to 1.00 ppm
Output		Carbon Monoxide	CO	0 to 500 ppm
<i>Recorder</i>	4 to 20 mA, 400 Ohm impedance maximum	Chlorine	Cl ₂	0 to 5.00 ppm
<i>Alarm Relays</i>	One set of SPDT (Form C) contacts for each alarm level (Warn/Alarm and Fail conditions)	Chlorine Dioxide	ClO ₂	0 to 2.00 ppm
<i>Audible Alarm</i>	Case-mounted buzzer, 94 db at 1 ft., pulsing for Warn and Alarm, continuous for Fail	Combustibles	several	0 to 100% LEL
<i>Display</i>	Three digit, red LED	Combustibles	several	0-5000 ppm
<i>Status Indication</i>	Four color coded LED's	Diborane	B ₂ H ₆	0 to 1.00 ppm
<i>Fail</i>	Yellow - Sensor malfunction, down scale reading, open sensor wiring	Fluorine	F ₂	0 to 10.0 ppm
<i>Pilot</i>	Green - Instrument powered on	Hydrogen Chloride	HCl	0 to 30.0 ppm
<i>Warn</i>	Orange - Low level threshold exceeded	Hydrogen Cyanide	HCN	0 to 50.0 ppm
<i>Alarm</i>	Red - High level threshold exceeded	Hydrogen Fluoride	HF	0 to 15.0 ppm
Controls		Hydrogen Sulfide	H ₂ S	0 to 100 ppm
<i>Potentiometer</i>	Zero, Span, Warn and Alarm levels. Alarm delay adjustment	Nitric Oxide	NO	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	Nitrogen Dioxide	NO ₂	0 to 20.0 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)	Oxygen	O ₂	0 to 30.0% Vol.
<i>DIP Switches</i>	Alarm logic and relay operation	Ozone	O ₃	0 to 1.00 ppm
Operating Temp.	-4 ⁰ F to 113 ⁰ F (-20 ⁰ C to 45 ⁰ C)	Phosphine	PH ₃	0 to 1.00 ppm
Relative Humidity	0 to 95% RH, non-condensing	Silane	SiH ₄	0 to 15.0 ppm
Physical Dimensions	10.94" (278mm) (L) x 8.5" (216mm) (W) x 6.5" (165mm) (H), 6.2 lbs. (2.3 kg)	Sulfur Dioxide	SO ₂	0 to 20.0 ppm
Enclosure Rating	NEMA 4X, gray fiberglass with blue panel overlay			
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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