

A UTC Fire & Security Company

SPECIFICATION DATA

Infiniti[®] Gas Transmitter U9500



APPLICATIONS

The Model U9500 Infiniti[®] Transmitter is designed to be used with Det-Tronics gas detectors for continuous monitoring of dangerous gases.

Gas concentrations are displayed on an alphanumeric display in %LFL, ppm, or %Vol, depending on the sensor. The transmitter provides a 4 to 20 milliampere output signal that corresponds to the detected gas concentration. An optional relay package is available.

Each Infiniti transmitter is used with one sensor. The sensor may be mounted directly to the explosion-proof Infiniti housing, or it may be located remotely using a sensor separation kit.

Typical applications include:

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- Confined spaces where gas/vapor leaks can concentrate to explosive or toxic levels or where oxygen levels need to be monitored (enclosed processing areas).
- Known high risk leak locations (points within processing areas, compressor buildings).
- General open area coverage (storage areas).



Available gas sensors include: Catalytic Combustible PointWatch Hydrocarbon Hydrogen Sulfide (H₂S) NTMOS H₂S Carbon Monoxide (CO) Sulfur Dioxide (SO₂) Nitrogen Dioxide (NO₂) Chlorine (Cl)

Oxygen (O₂)

BENEFITS AND FEATURES

FEATURES

- User-friendly setup
- Non-intrusive calibration using the internal magnetic reed switch, or an externally located pushbutton (not included)
- · Automatic fault diagnostics and annunciation
- Sensor sensitivity and end of sensor life indication
- Optional relay package provides three alarm relays (high, low, and auxiliary) and one fault relay.

APPLICATION FLEXIBILITY

- Compatible with a wide range of Det-Tronics sensors
- Field adjustable programming options include: Operating range (toxic sensors only) Alarm setpoints Calibration gas concentration Relay operation latching or non-latching, energized or de-energized coils (relay package optional) Automatic or manual calibration Current loop adjustment.

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SPECIFICATIONS

Input Voltage	24 Vdc. Operating range is 16 to 32 Vdc including ripple.			One Fault rela	Vdc. Normally energized for
Power Consumption with Sensor (Infiniti with alarm relays and sensor connected, 24 Vdc input voltage.)					no fault condition with power applied to device.
Toxic and Oxygen Models:		3 watts nominal, 5 watts maximum.	Certifications	<u>FM/CSA</u> :	Explosion-proof for Class I, Div. 1, Groups B, C, and D, and Ex d IIC T4 (CSA only).
Combustible Gas Model: PIR9400 PointWatch Model:		4.6 watts nominal, 6.5 watts maximum. 8.1 watts nominal,			Dust ignition-proof for Class II/III, Div. 1, Groups E, F, and G.
PIRECL Eclipse Model:		10.1 watts maximum. 7.6 watts nominal, 12.4 watts maximum.			Non-incendive for Class I, Div. 2, Groups A, B, C, and D (T4).
Current Output	Selectable isolated	istance: 600 ohms. d or non-isolated operation. output indicates unit is			Class II/III, Div. 2, Groups F and G (T4A). NEMA/Type 4X. Performance verified per FM 6320 and FM 6341;
Display	Less than 1.0 mA Eight character alp power on, gas con conditions. It also setpoints, calibratio	output indicates fault condition. hanumeric display indicates centration, alarm and fault enables field adjustment of alarm on gas concentration, full scale je and gas type to be detected.		CENELEC:	CSA C22.2 #152. C € 0539
Detection Range	<u>Hydrocarbon</u> : <u>Calalytic:</u> H <u>2</u> S (EC sensor):	0 to 100% LFL for PointWatch IR detector. (FM/CSA verified) 0 to 100% LFL. 0 to 100 ppm, 0 to 20 ppm, 0 to 50 ppm. (FM/CSA verified)		<u>RUSSIAN</u> :	1Ex d IIC T6 (Tamb = -60° C to $+50^{\circ}$ C), T5 (Tamb = -60° C to $+65^{\circ}$ C), T4 (Tamb = -60° C to $+75^{\circ}$ C).
	<u>H₂S (NTMOS sensor</u> Chlorine:): 0 to 100 ppm 0 to 10 ppm.	Shipping Weight	<u>Aluminum</u> : <u>Stainless Stee</u>	4.15 pounds (1.88 kilograms). 21: 10.5 pounds (4.76 kilograms).
	<u>Oxygen</u> : <u>Carbon Monoxide</u> :	0 to 25% by volume.	Enclosure	Epoxy coated 356 aluminum or 316 stainless steel NEMA Type 4X and IP66.	
	<u>Nitrogen Dioxide</u> : <u>Sulfur Dioxide</u> :	0 to 20 ppm. 0 to 100 ppm.	Dimensions	-	57 inches (16.7 cm) 16 inches (14.9 cm) by 4.7 inches (11.9 cm)
Temperature Range		°F to +167°F (−40°C to +75°C). °F to +185°F (−55°C to +85°C).			dels: 3/4" NPT or M20/M25 threads. el models: 3/4" NPT or M20 threads.
Wiring	wiring to the trans be required to mai	is recommended for power mitter. Larger diameter wire may ntain a minimum of 16 Vdc at the operating conditions. Maximum hals is 12 AWG.	6.57		
Relays (Optional)	Selectable normal as a group. Low, a	Errorm C, 5 amperes at 30 Vdc. Iy energized or de-energized auxiliary and high alarm relays oup for latching or non-latching			

Specifications subject to change without notice.

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