

# Noventis Technologies

*Infrared Gas Detection Transmitter*

## Microsense IR



### The Microsense IR Gas Transmitter

The Noventis Microsense IR is a high quality single gas safe area gas monitor that meets the requirements for economic and reliable gas monitoring via infrared technology. Available for detecting a wide range of different gases, from refrigerants to carbon dioxide as well as sulphur hexafluoride (SF6), the Microsense IR gas detector can be connected to any control system that accepts an analogue signal.

Its critical parts are made of silicon; this gives the sensor outstanding stability over both time and temperature. By lengthening the calibration intervals, the user saves both time and money. Housed within a rugged enclosure, the Microsense IR is suitable for use in non-hazardous areas such as laboratories or switchgear rooms. Providing discrete monitoring and enhanced aesthetics, the Microsense IR gas detector is the ideal solution for reliable, low-cost fixed-point monitoring.

- For detection of CO<sub>2</sub>, SF<sub>6</sub>, N<sub>2</sub>O and CH<sub>4</sub>
- Detection of Refrigerants
- Infrared Technology
- Rugged and reliable
- Long Life & Low Maintenance Cost
- 4-20 mA output option
- Low cost of ownership
- Abs housing

Applications include:

- Laboratories and research facilities
- Horticulture and fruit storage
- Safety alarming and leakage monitoring






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Gas Detection & Life Safety

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# Specifications

CONNECTIVITY		ENCLOSURE	
Detection Principle	Non Dispersive Infrared (NDIR) Dual Wave length	Dimensions	151 (h) x 80 (w) x 60 (d) mm
Power requirement	12-28 VDC	Material	ABS
Output	4-20mA – 3 wire	Weight	125 grams
EMC compliance	AS/NZS 61000-3-2	Protection	IP 54

AVAILABLE GASES										
Gas	Form	Range	Product code	Sensor	LT Drift	Repeatability	Humidity (N/C)	Temperature	T90 Resp. time	Air Pressure
Acetylene	C2H2	0 ... 2.3 %Vol	600501	S-NDIR	2 % FS / year	1 % of signal	0 to 95 %	-10°C to +40°C	<30 seconds	800 ... 1200 hPa
Carbon Monoxide	CO	0 ... 2 %Vol	600510	S-NDIR	2 % FS / year	1 % of signal	0 to 95 %	-10°C to +40°C	<30 seconds	800 ... 1200 hPa
Carbon Dioxide	CO2	0 ... 0.5 %Vol	600521	V-NDIR	1 % FS / year	1 % of signal	0 to 85 %	-5°C to +45°C	<30 seconds	700 ... 1200 hPa
Carbon Dioxide	CO2	0 ... 1 %Vol	600522	V-NDIR	1 % FS / year	1 % of signal	0 to 85 %	-5°C to +45°C	<30 seconds	700 ... 1200 hPa
Carbon Dioxide	CO2	0 ... 5 %Vol	600523	S-NDIR	2 % FS / year	1 % of signal	0 to 95 %	-10°C to +40°C	<30 seconds	800 ... 1200 hPa
Carbon Dioxide	CO2	0 ... 20 %Vol	600525	S-NDIR	2 % FS / year	1 % of signal	0 to 95 %	-10°C to +40°C	<30 seconds	800 ... 1200 hPa
Ethylene	C2H4	0 ... 2.4 %Vol	600535	S-NDIR	2 % FS / year	1 % of signal	0 to 95 %	-10°C to +40°C	<30 seconds	800 ... 1200 hPa
Methane	CH4	0 ... 4.4 %Vol	600545	S-NDIR	2 % FS / year	1 % of signal	0 to 95 %	-10°C to +40°C	<30 seconds	800 ... 1200 hPa
Nitrous Oxide	N2O	0 ... 100 ppm	600550	S-NDIR	2 % FS / year	1 % of signal	0 to 95 %	-10°C to +40°C	<300 seconds	800 ... 1200 hPa
Nitrous Oxide	N2O	0 ... 0.1 %Vol	600551	S-NDIR	2 % FS / year	1 % of signal	0 to 95 %	-10°C to +40°C	<30 seconds	800 ... 1200 hPa
Propane	NO2	0 ... 1.7 %Vol	600565	S-NDIR	2 % FS / year	1 % of signal	0 to 95 %	-10°C to +40°C	<30 seconds	800 ... 1200 hPa
R134a	--	0 ... 0.1 %Vol	600570	S-NDIR	2 % FS / year	1 % of signal	0 to 95 %	-10°C to +40°C	<30 seconds	800 ... 1200 hPa
R404a	--	0 ... 0.1 %Vol	600571	S-NDIR	2 % FS / year	1 % of signal	0 to 95 %	-10°C to +40°C	<30 seconds	800 ... 1200 hPa
R407c	--	0 ... 0.1 %Vol	600572	S-NDIR	2 % FS / year	1 % of signal	0 to 95 %	-10°C to +40°C	<30 seconds	800 ... 1200 hPa
R410a	--	0 ... 0.1 %Vol	600573	S-NDIR	2 % FS / year	1 % of signal	0 to 95 %	-10°C to +40°C	<30 seconds	800 ... 1200 hPa
R507	--	0 ... 0.1 %Vol	600574	S-NDIR	2 % FS / year	1 % of signal	0 to 95 %	-10°C to +40°C	<30 seconds	800 ... 1200 hPa

ACCESSORIES	
	<p><b>Flow / Calibration Adaptor</b></p> <ul style="list-style-type: none"> <li>▪ To fit any model / gas</li> <li>▪ Allows gas to be pumped through detector</li> <li>▪ 1/4" Connectors</li> </ul>
	<p><b>Control / Alarm Panel</b></p> <ul style="list-style-type: none"> <li>▪ Alarm processing for eight detectors</li> <li>▪ Large display</li> <li>▪ Flexible Programming</li> </ul>
	<p><b>Calibration Gas</b></p> <ul style="list-style-type: none"> <li>▪ For calibration and regular maintenance</li> <li>▪ Over 300 combinations available</li> <li>▪ NATA Certified</li> </ul>

