



**Detects solvents and
gases such as HCFCs,
HFCs and PFCs**

Model IR-148



This list contains target gases that can be detected with the IR-148

If your application is not listed, please contact the Customer Business Center to have your application evaluated.

Ranges available are: 0-10ppm, 0-100ppm, 0-1000ppm, 0-1% volume, 0-10% volume, 0-100% volume and 0-100% LEL.

Note: Not all ranges are available on all the gases listed.

A	Acetone Acetonitrile Acrylonitrile Ammonia	O	Octafluoro Cyclo Butane Octafluoro Cyclo Pentane
B	Benzene Butane Butanol 1,3 Butadiene 1-Butyl Acetate	P	Pentane Perchloroethylene (Tetrachloroethylene) Perfluorohexane Perfluoromethyl Vinyl Ether (PMVE) PF5050 Phosgene Propanal Propane Propylene Oxide Propylene Glycol Methyl Ether Acetate
C	Carbon Dioxide (Needs humidity in stream) Carbon Monoxide (Needs humidity in stream) Carbon Tetrachloride Chloroform Cyclopentane	R	Refrigerants: R-11 R-113 R-114 R-12 R-123 R-124 R-125 R-13 R-134A R-141B R-142B R-143A R-152A R-218 R-22 R-227 R-23 R-32 R-401A (Suva MP 39) R-402A (HP 80) R-404A (HP 62) R-407C (AC 9000) R-408A R-409A R-410A (AZ20) R-500 R-502 R-507 R-508B (Suva 95)
D	1,2 Dichloroethane Diethyl Benzene Diethyl Ether (Ethyl Ether) Dimethyl Ethylamine Difluoromethane Dimethylamine Dowtherm J	S	Solkane 365/227 Styrene Sulphur Hexafluoride (SF ₆)
E	Ethane Ethanol Ethyl Acetate Ethyl Benzene Ethylene Ethylene Oxide	T	Tetrafluoroethylene Tetra Hydrofuran Toluene 1,1,1 Trichloroethane 1,1,2 Trichloroethane Trichloroethylene Triethylamine
H	Halon 1211 Halon 1301 Heptane Hexafluoro- 1.3 Butadiene Hexafluoropropylene Hexane Hexene HFE 347E HFE 7100	V	Vinyl Chloride Vinyl Fluoride
I	Isceon 89 Isopropanol (2-Propanol) Isopropyl Alcohol Isobutane Isopentane	X	Xylenes (ortho, meta, para or natural)
M	Methane Methanol Methyl Ethyl Ketone (MEK) Methyl Fluoride Methyl Formate Methyl Iodide Methyl Isobutyl Ketone (MIBK) Methyl Methacrylate Methylene Chloride		
N	N-Butanol N-Hexane N-Pentane Nitrogen Trifluoride Nitrous Oxide (N ₂ O) (Needs humidity in stream)		

General Specification



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Typical	Performance characteristics subject to change, depending on gas to be monitored and full-scale range.
For 0-1000ppm Range	Accuracy: 0-100ppm ± 2 ppm; 100-1000ppm $\pm 10\%$ reading Linearity: 0-100ppm linear, 100-1000 $\pm 2\%$ of full scale Sensitivity: 2ppm Resolution: 1ppm
Note	Specifications for other ranges dependant on application. Consult factory.
Reproducibility	± 2 ppm over 12 months at specified operating conditions
Response	Updated reading every 7 seconds
Operating Temperature	0-50°C, 32-122°F
Temperature Effect	$\pm 0.3\%$ per °C of reading
Relative Humidity	0-99% non-condensing - no effect on reading
Sample Flow Rate	1.5 liter/minute
Maximum Total Tubing Length	150f with $\frac{1}{8}$ " ID 500f with $\frac{3}{16}$ " ID
Operating Power Requirements	120VAC $\pm 10\%$ at 0.56A, or 240VAC; $\pm 10\%$ at 0.3A
Alarm Relays	3 relays @ 8A resistive
Approvals	CE approval: EN55011 & EN 50082-2/EN6100-4-2
Outputs:	Analog 4-20mA sourcing (dependent on configuration) RS23C (standard), RS422 or RS485 (optional module)
Physical Enclosure Information	
NEMA 4	Dimensions: 460 x 410 x 180mm (18" x 16 x 7") (H x W x D) Weight: 19kg (40lbs)
19" Rack Mount	Dimensions: 180 x 450 x 390mm (7" x 17 $\frac{1}{2}$ " x 15 $\frac{1}{4}$ ") (H x W x D) Weight: 9kg (19lbs)





Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



UK Office

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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.