



**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



General Specification	
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 $\frac{5}{8}$ x 15 $\frac{1}{4}$ ") (H x W x D) Weight: 9kg (19lbs)



Our Product Range



Fixed Gas Monitoring

Honeywell Analytics offers a wide range of fixed gas detection solutions for a diverse array of industries and applications including: Commercial properties, industrial applications, semiconductor manufacturers, energy plants and petrochemical sites.

- » Detection of flammable, oxygen and toxic gases (including exotics)
- » Innovative use of 4 core sensing technologies – paper tape, electrochemical cell, catalytic bead and infrared
- » Capability to detect down to Parts Per Billion (ppb) or Percent by Volume (%v/v)
- » Cost effective regulatory compliance solutions

Portable Gas Monitoring

When it comes to personal protection from gas hazards, Honeywell Analytics has a wide range of reliable solutions ideally suited for use in confined or enclosed spaces.

These include:

- » Detection of flammable, oxygen and toxic gases
- » Single gas personal monitors – worn by the individual
- » Multi-gas portable gas monitors – used for confined space entry and regulatory compliance
- » Multi-gas transportable monitors – used for temporary protection of area during site construction and maintenance activities

Technical Services

At Honeywell Analytics, we believe in the value of great service and customer care. Our key commitment is providing complete and total customer satisfaction. Here are just a few of the services we can offer:

- » Full technical support
- » Expert team on hand to answer questions and queries
- » Fully equipped workshops to ensure quick turnaround on repairs
- » Comprehensive service engineer network
- » Training on product use and maintenance
- » Mobile calibration service
- » Customised programmes of preventative/corrective maintenance
- » Extended warranties on products

Find out more

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