

Technical Data



- Infrared measuring principle (NDIR)
- Dual beam technology
- Modbus ASCII via UART
- Pre calibrated
- High selectivity

Infrared gas sensor using dual beam technology, with measurement and reference channel, for monitoring room air in cold storage houses and leak detection in cooling systems. Integrated evaluation electronics for drift and temperature compensation.

Gas supply by diffusion	Gases *	Measurement range	Model type
	R22 chlorodifluoromethane	0-1000 ppm 0-2000 ppm	B1-700105-03000 B1-700205-03000
	R123 dichlorotrifluoroethane	0-1000 ppm 0-2000 ppm	B1-730105-03000 B1-730205-03000
	R125 pentafluoroethane	0-1000 ppm 0-2000 ppm	B1-720105-03000 B1-720205-03000
	R134a tetrafluoroethane	0-1000 ppm 0-2000 ppm	B1-710105-03000 B1-710205-03000
	R290 propane	0-1.7 Vol.-% (0-100 % LEL)	B1-050176-03000
	R404a refrigerant	0-1000 ppm 0-2000 ppm	B1-740105-03000 B1-740205-03000
	R600 n-butane	0-1.4 Vol.-% (0-100 % LEL)	B1-020146-03000
	R744 carbon dioxide	0-5 Vol.-%	B1-212506-03000

Gas supply by flow	Gases *	Measurement range	Model type
	R22 chlorodifluoromethane	0-1000 ppm 0-2000 ppm	F1-700105-03000 F1-700205-03000
	R123 dichlorotrifluoroethane	0-1000 ppm 0-2000 ppm	F1-730105-03000 F1-730205-03000
	R125 pentafluoroethane	0-1000 ppm 0-2000 ppm	F1-720105-03000 F1-720205-03000
	R134a tetrafluoroethane	0-1000 ppm 0-2000 ppm	F1-710105-03000 F1-710205-03000
	R290 propane	0-1.7 Vol.-% (0-100 % LEL)	F1-050176-03000
	R404a refrigerant	0-1000 ppm 0-2000 ppm	F1-740105-03000 F1-740205-03000
	R600 n-butane	0-1.4 Vol.-% (0-100 % LEL)	F1-020146-03000
	R744 carbon dioxide	0-5 Vol.-%	F1-212506-03000

* More gases and measuring ranges on request

Sensors similar to the illustration



Infrared gas sensor using dual beam technology with measurement and reference channel for use in analytical devices and process control applications. Integrated evaluation electronics for drift and temperature compensation. Robust aluminium cuvette with gas line connectors.

- Infrared measuring principle (NDIR)
- Dual beam technology
- Modbus ASCII via UART
- Robust aluminium cuvette
- 3/5mm gas line connectors
- Pre calibrated
- High selectivity
- Customer-specific modules possible

Gases *	Measurement range	Model type
acetylene C_2H_2	0-2.3 Vol.-% (0-100 % LEL)	F1-010236-00000
n-butane C_4H_{10}	0-1.4 Vol.-% (0-100 % LEL)	F1-020146-00000
	0-100 Vol.-%	F1-020108-00000
ethylene C_2H_4	0-2.4 Vol.-% (0-100 % LEL)	F1-030246-00000
	0-2000 ppm	F1-030205-00000
carbon dioxide CO_2	0-5000 ppm (0-100 % TLV)	F1-212505-00000
	0-5 Vol.-%	F1-212506-00000
	0-20 Vol.-%	F1-212207-00000
	0-100 Vol.-%	F1-212108-00000
carbon monoxide CO	0-2 Vol.-%	F1-221206-00000
	0-10 Vol.-%	F1-221107-00000
	0-100 Vol.-%	F1-221108-00000
methane CH_4	0-4.4 Vol.-% (0-100 % LEL)	F1-040446-00000
	0-100 Vol.-%	F1-040108-00000
propane C_3H_8	0-1.7 Vol.-% (0-100 % LEL)	F1-050176-00000
	0-100 Vol.-%	F1-050108-00000

Gas supply by diffusion



Gas *	Measurement range	Model type
SF_6 sulphur hexafluoride	0-1000 ppm (0-100 % TLV)	B1-600105-00000

Gas supply by flow



Gas *	Measurement range	Model type
SF_6 sulphur hexafluoride	0-50 ppm	F1-600503-00000
	0-1000 ppm (0-100 % TLV)	F1-600105-00000



SF_6 sulphur hexafluoride	0 - 100 %	F1-600108-00000
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