



RECOM
INDUSTRIALE s.r.l.

EXPLORER RTI SERIES

Sensors / Transmitters I.R. flow versions

- Infrared technology
- Active flow gas control
- ABS type – RINA - MED [®] approval for marine applications
- Complete accessories list
- Complete series of accessories
- Very good price-quality relationship

RTI series gas sensors are based on an InfraRED innovative technology and they are suitable for measuring CO₂, CO, CH₄, N₂O and HC gases, in air or in full nitrogen mixtures. Measuring system automatically balance temperature variations. This technology is based on a “smart” sensors that using an optional wireless communications microchip, a complete and automatic system for energy control and a sensor fails diagnostic algorithm.

RTI series				
Name	Gas	Formula	Range	Code
RTI 1001	Carbon Dioxide	CO ₂	0 ÷ 5 % vol 0 ÷ 10 % vol 0 ÷ 25 % vol 0 ÷ 100 % vol 0 ÷ 5.000 ppm	1003000
RTI 1002	Methane	CH ₄	0 ÷ 5 % vol 0 ÷ 100 % LEL 0 ÷ 100 % vol	1003100
RTI 1003	Hydrocarbons	HC	0 ÷ 5 % vol 0 ÷ 100 % LEL 0 ÷ 100 % vol	1003200
RTI 1004	Hydrocarbons	HC	0 ÷ 2.000 ppm	1003300
RTI 1005	Freon		0 ÷ 1.000 ppm	1003400
RTI 1006	Nitrous oxide	N ₂ O	0 ÷ 1.000 ppm	1003500

Technical Specifications for all RTI series sensors

Mechanical	
Enclosure	Die-cast aluminium
Dimensions/weight	Depends by the gas and the range
Electrical	
Power supply	9-24 Vdc
Absorbption	Max 90mA @ 9 Vdc
Warm up time	<ul style="list-style-type: none"> ▪ < 30 sec @ 20°C operational ▪ < 30 min @ 20°C full spec
Source frequency	1 ÷ 2 Hz
Refresh	5 ÷ 10 sec.
Response time T ₉₀	15 ÷ 40 sec. @ 20°C and @ 1 l/min.
Analog output	<ul style="list-style-type: none"> ▪ 4-20mA ▪ 0-5 V
I/O	<ul style="list-style-type: none"> ▪ 4 out: OPEN ▪ 4 in: 0-5 V
Connections	<ul style="list-style-type: none"> ▪ Digital I/O: 0015446810 Molex con ▪ Pompa: SL 3.5/2/180G Weidmüller con ▪ Analog I/O: SL 3.5/2/180G Weidmüller con ▪ Power Supply: SL 3.5/2/180G Weidmüller con
Working conditions	
Temperature	0°C / + 50°C
Humidity	0% - 95% relative humidity (non-condensing)
Pressione	800 – 1150 hPa. Variazione +/- 1,5% sulla lettura per kPa

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