

# High Temperature Measurement Sensor Module for CO<sub>2</sub> and other Gases & Liquids

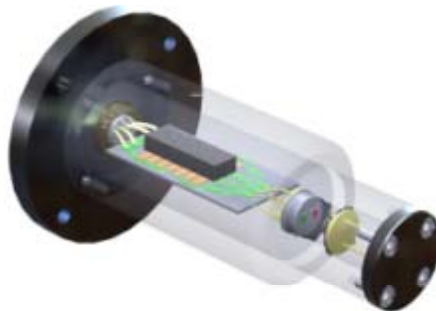
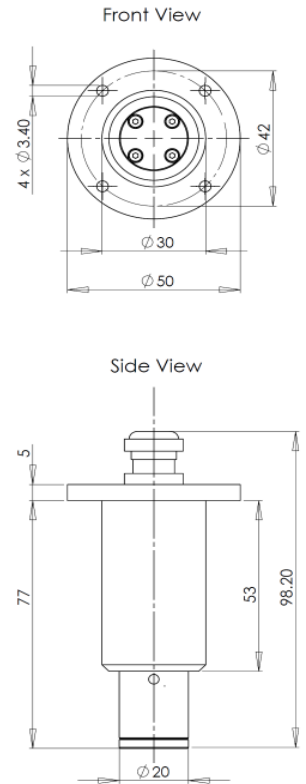


- Withstands the sterilization process (temperatures and humidity)
- Module includes IR Source and Thermopile Detectors

High temperature gas measurement module for CO<sub>2</sub> and other gases and liquids (such as oil and brake fluid) for operating temperatures up to 190°C. The thermopile module includes the IR source, preamplifier and control electronics.

Parameter		
Measurement Range	0 ... 5	% <sub>vol</sub> CO <sub>2</sub>
Accuracy	< ± 2 %	of upper range value
Non Linearity	< 0.5 %	of expectation value
Temperature Dependence		compensated
Pressure Dependence	± 0.15 %	of upper range value / hPa
Reaction Time (t <sub>(0-63%)</sub> )	20	s
Heating Period	< 2	min
Temperature Measurement Range	-20 ... 200	°C
Accuracy of Temperature Measurement	± 1 %	of upper range value
Outputs	analog: 0 ... 1 V; 4...20 mA; serial (RS232), CAN	
Supply Voltage	5 ... 20	V
Power Input	< 2	W
Operation Temperature	0 ... 190	°C
Storage Temperature	-20 ... 190	°C
Moisture Range	0 ... 95 %	relative humidity
Mass (only measurement cell)	120	g
Availability	End of 2009	

Preliminary datasheet for prototype version (May 2009) – subject to change without notice



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