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## About OXY-FLEX Oxygen Analyzer

### Features:

- Housed in a sealed die-cast aluminum housing (80x75x52) with attached oxygen sensor probe and Amphenol ecomate connector
- Electronics provide three types of output signal: 0-10V; 4-20mA and RS232 communications interface
- Probe operating temperatures of up to 400 degrees Celsius
- Selectable output measurement ranges; standard ranges of 0-25% O<sub>2</sub> and 0-100% O<sub>2</sub> or fully adjustable via RS232
- Various probe lengths available

### Benefits

- Removes the need for the customer to implement their own control electronics
- No need for an external sensor heater supply
- Effects of barometric and application pressure can be removed using simple built-in single point calibration.

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The Sensing Experts

Our innovative range of Zirconium  
Dioxide Sensing Solutions

## At SST Sensing Ltd we design and manufacture a unique and innovative range of Zirconium Dioxide Oxygen Sensing Solutions.

We have been providing robust and reliable oxygen sensors to the combustion industry for more than 10 years and are very experienced in what we do. Our primary goal is to deliver high quality sensing products and electronics to our customers which exactly meet their technical requirements. We achieve this by offering a range of options which include:

Our standard range of oxygen sensors, connected via our O2I-FLEX interface electronics that power and control them.

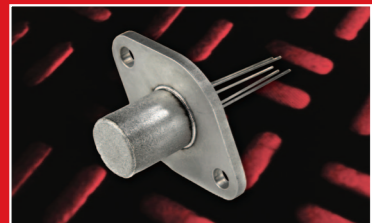
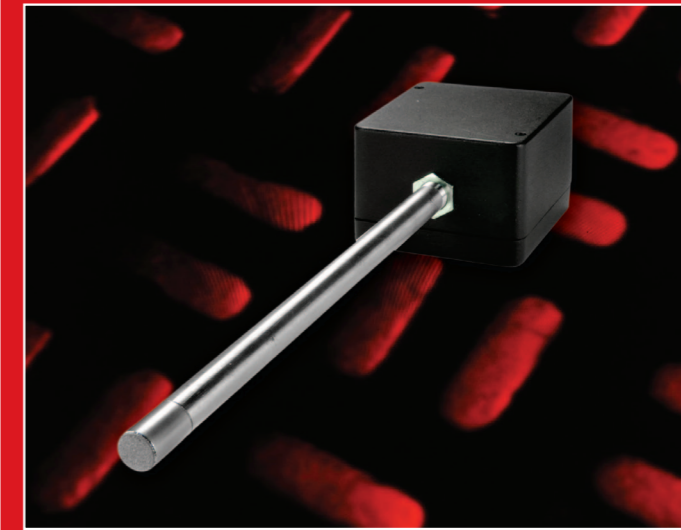
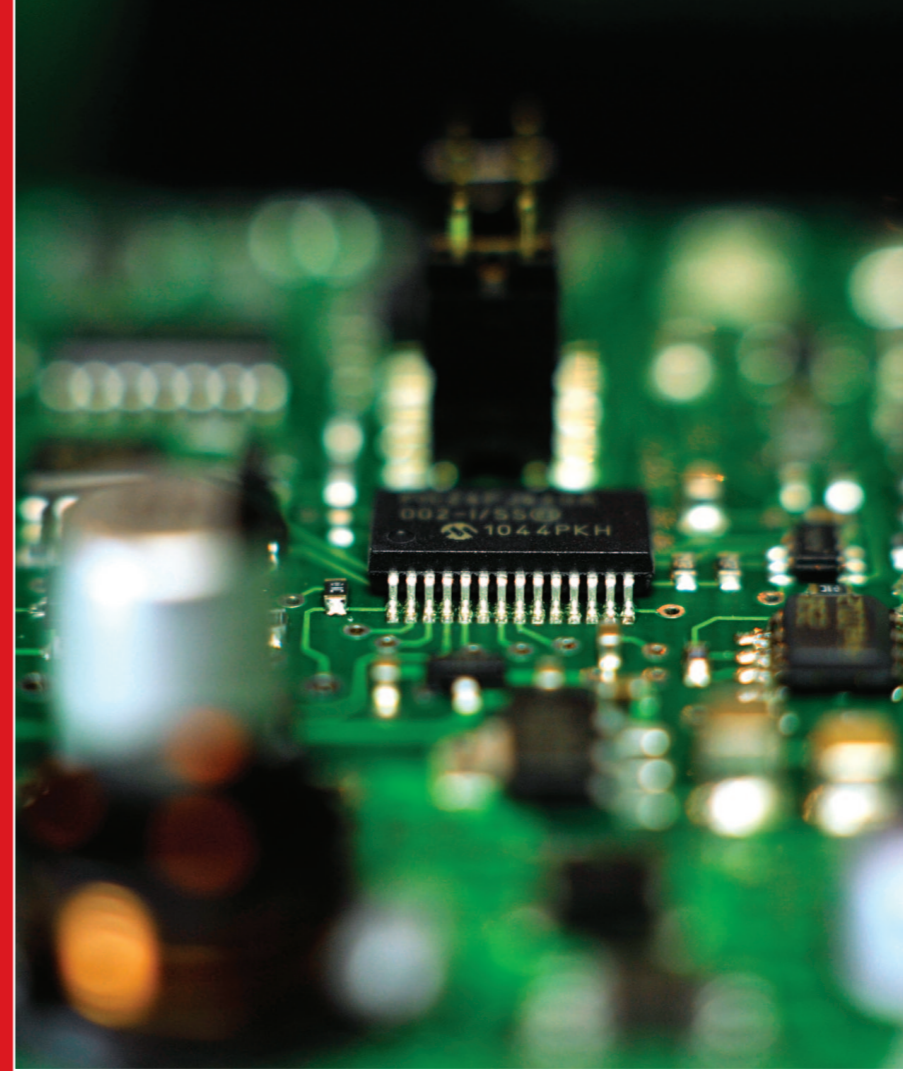
Our OXY-Flex oxygen analyzer which is an all-in-one combined sensor and electronics solution or,

A tailored, customer specific solution that meets our customers' application requirements.

We provide full application and technical support to our customers by sharing our knowledge, expertise and experience, in order to provide the best possible solution for their application.

We also help many of our customers in designing their own interface electronics if required.

# Whatever you need to detect, we've got the sensing solution for you...



### About Oxygen Sensors

#### Features:

- Small sensing element
- Low weight
- Integral heating element
- All stainless steel construction
- Customer specific designs and connectors
- Remote electronics
- Works at high oxygen pressures
- No reference gas required
- Gives absolute measurement

#### Benefits:

- Small, accurate with wide measuring range
- Linear output signal
- Rugged stainless steel construction both internally and externally
- Can be used directly in high temperature, high pressure environments
- High resistance to corrosion allows the sensor to be used in aggressive, harsh environments and gas streams such as combustion flues and in composting applications.
- Dynamic sensing principle ensures failsafe operation
- No reference gas required, creating the ability to measure a wide oxygen range with all versions of the product.
- Very simple recalibration if/when required
- Can be operated by simple, low cost electronics
- Long life

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#### Benefits





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### Applications

- Boiler/Furnace efficiency improvement for Coal/Oil/Gas/Biomass
- Continuous Emission Monitoring Systems (CEMS)
- Controlled environment transportation – perishable goods storage
- Aviation – OBIIGGS and OBOGS
- Accelerated composting
- Agriculture
- Controlled atmosphere monitoring
- Medical and laboratory equipment
- Vehicle Emissions Monitoring



# Sensor Specifications

Product Range	Part Number	Temperature Range	Response Time	Pressure Range	Probe Length	Termination
Probe Mounted O2 Sensors 	02S-T2	-100 - +250°C	<15s	2mbar - 3bar	80mm	0.15m Cable, Molex Connector
	02S-T2-002	-100 - +250°C	<15s	2mbar - 3bar	80mm	0.3m Cable, Molex Connector
	02S-T2-003	-100 - +250°C	<15s	2mbar - 3bar	80mm	1.1m Cable, Molex Connector
	02S-FR-T2	-100 - +250°C	<4s	2mbar - 3bar	80mm	0.15m Cable, Molex Connector
	02S-FR-T2-002	-100 - +250°C	<4s	2mbar - 3bar	80mm	0.3m Cable, Molex Connector
	02S-FR-T2-003	-100 - +250°C	<4s	2mbar - 3bar	80mm	1.1m Cable, Molex Connector
	02S-T6-SH	-100 - +250°C	<15s	2mbar - 3bar	220mm	Leadwires, 20AWG, 200mm
	02S-T6	-100 - +250°C	<15s	2mbar - 3bar	400mm	Leadwires, 20AWG, 200mm
	02S-T6-SH-H	-100 - +400°C	<15s	2mbar - 3bar	220mm	Leadwires, 20AWG, 200mm
	02S-T6-H	-100 - +400°C	<15s	2mbar - 3bar	400mm	Leadwires, 20AWG, 200mm
Flange Mounted O2 Sensors 	02S-FR-T4-4P	-100 - +400°C	<4s	2mbar - 3bar	n/a	Nickel plated stainless steel wire 4 pin
	02S-FR-T4-5P					Nickel plated stainless steel wire 5 pin
Miniature O2 Sensors 	02S-T3	-100 - +250°C	<15s	2mbar - 3bar	n/a	Nickel plated stainless steel wire 5 pin
	02S-FR-T3		<4s			Nickel plated stainless steel wire 5 pin
Screw Fit Probe O2 Sensor 	02S-FR-T2-18A				Probe with M18x1.5 nut A=55mm	0.15m Cable, Molex Connector
	02S-FR-T2-18A-002					0.3m Cable, Molex Connector
	02S-FR-T2-18A-003					1.1m Cable, Molex Connector
	02S-FR-T2-18B	-100 - +250°C	<4s	2mbar - 3bar	Probe with M18x1.5 nut B=45mm	0.15m Cable, Molex Connector
	02S-FR-T2-18B-002					0.3m Cable, Molex Connector
	02S-FR-T2-18B-003					1.1m Cable, Molex Connector
	02S-FR-T2-18C					0.15m Cable, Molex Connector
	02S-FR-T2-18C-002					0.3m Cable, Molex Connector
	02S-FR-T2-18C-003					1.1m Cable, Molex Connector

Product Range	Part Number	Temperature Range	Response Time	Masuring Range	Probe Length	Output
02I-FLEX Interface Board 	02I-FLEX	-10 - +70°C	Depends on sensor	0.1-25% Vol. 02 or 0.1-100% Vol. 02	n/a	0/100VDC 4-20mA RS232
OXY-FLEX Oxygen Analyser 	OXY-FLEX-0	-100 - +250°C	15s	0.1-25% Vol. 02 or 0.1-100% Vol. 02	220mm	0-10VDC 4-20mA RS232
	OXY-FLEX-I				400mm	
	OXY-FLEX-0-H	-100 - +400°C			200mm	
	OXY-FLEX-I-H				400mm	