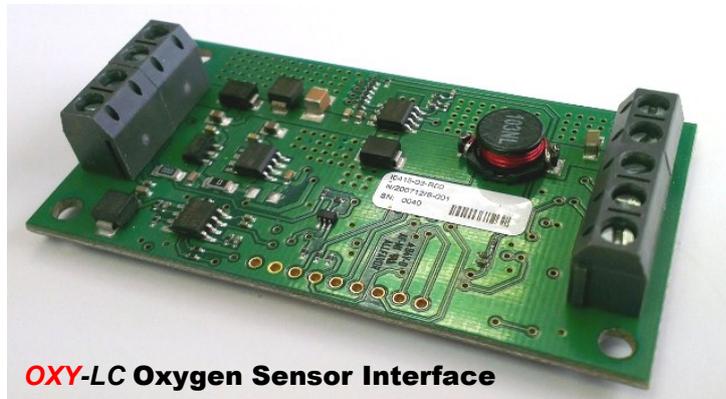




OEM Biomass Boiler Oxygen Measurement System for Optimised Combustion Control.

The **OEM Biomass Boiler Oxygen Measurement System** from SST consists of our latest fast response **OEM-Biomass Oxygen Sensor** in conjunction with our **OXY-LC Oxygen Sensor Interface** control electronics.



Key Features

- Oxygen range 0.1 - 25% O₂
- Zirconium dioxide (ZrO₂) sensing element
- Long life non-consuming technology
- Integral heating element
- No reference gas required
- High accuracy
- Linear output signal
- Available in RS485 Modbus RTU protocol and analogue output variants
- Sensor probe has M18x1.5 screw mount for simple flue gas connection
- Complete system removes the need to design discrete control electronics
- Operates between 8 and 28V_{DC} (RS485) or 20 to 28V_{DC} (Analogue Output Variants)
- The OEM Biomass Boiler Oxygen Measurement System is easily calibrated in normal air (20.7% O₂)

OEM Biomass Boiler Oxygen Measurement System

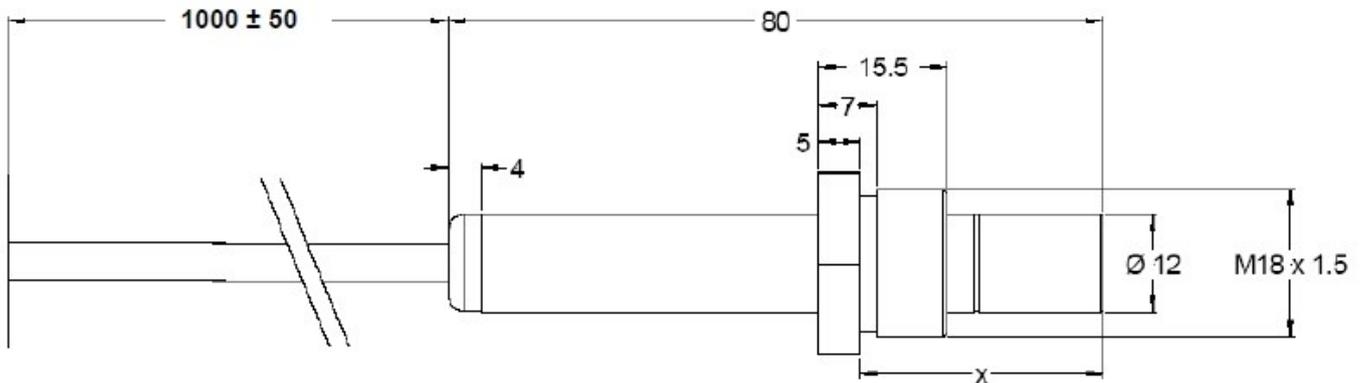
Description

The **OEM Biomass Boiler Oxygen Measurement System** is a complete solution consisting of both a zirconium dioxide oxygen sensor and control electronics.

For further specification details on the Oxygen Probe part of the system please reference SST Datasheet DS0122

For further specification details on the Control Electronics part of the system please reference SST Datasheet DS0058

Sensor Dimensions



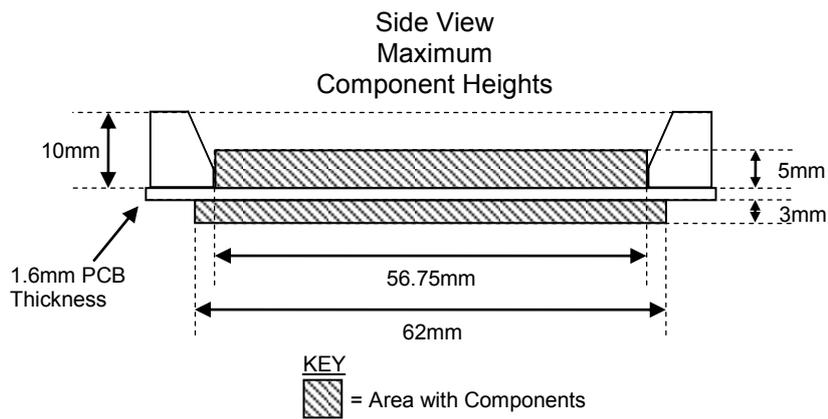
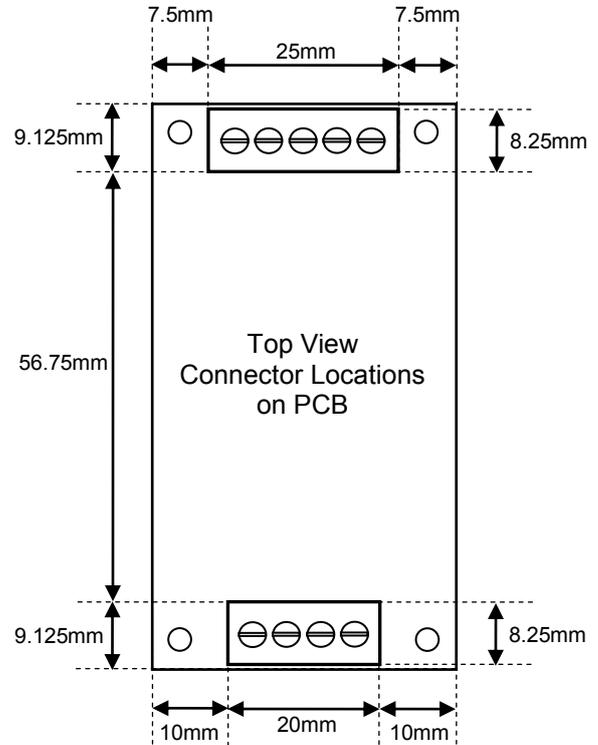
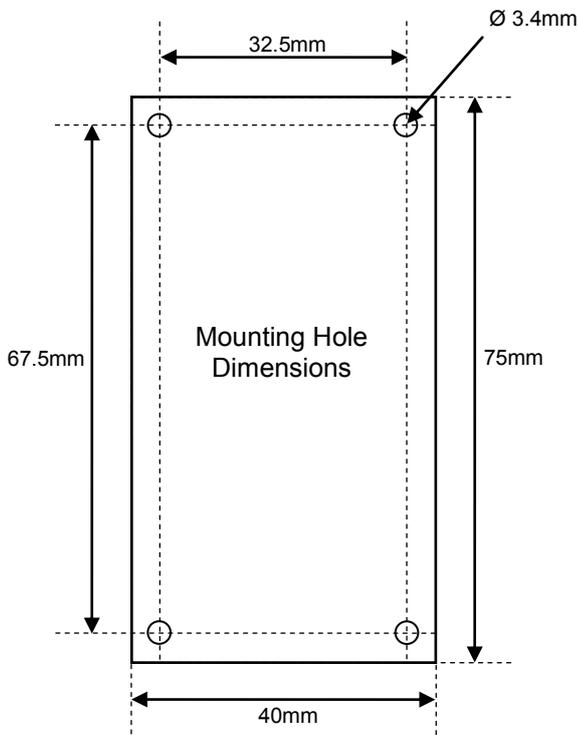
All dimensions in mm.
Sensor lengths are approximate.

Sensor Part Number		
O2S-FR-T2-18BM-A		X = 55mm
O2S-FR-T2-18BM-B		X = 45mm
O2S-FR-T2-18BM-C		X = 28mm

OEM Biomass Boiler Oxygen Measurement System

Board Dimensions

OUTLINE DRAWING AND MOUNTING INFORMATION (All dimensions are in mm)



OEM Biomass Boiler Oxygen Measurement System

Ordering Information

- Referring to the tables below will allow the customer to tailor a system to their specific needs.
- For example: Ordering part numbers OXY-LC-A25-455, and O2S-FR-T2-18BM-C will create a system that has a 4-20mA analogue output from the board and a sensor probe that has a distance of 28mm from the sensor tip to the beginning of the M18x1.5 screw mount.

Sensor Part Number	O2S-FR-T2-18BM-A	X = 55mm
	O2S-FR-T2-18BM-B	X = 45mm
	O2S-FR-T2-18BM-C	X = 28mm

Board Part Number	O2 Measurement range (vol O₂%)	Output Type	Heater Voltage
OXY-LC-485	0.1% and 100%	Modbus RTU	Configurable
OXY-LC-A25-455	0.1 to 25%	Current: 4-20mA	4.55V _{DC}
OXY-LC-V25-455	0.1 to 25%	Voltage: 0-10V _{DC}	4.55V _{DC}

WARNING: Do Not Use The Sensor With Silicones:

SST Sensing's oxygen sensors, like all other Zirconium Dioxide sensors, are damaged by the presence of silicone.

Vapours (organic silicone compounds) of RTV rubbers and sealants are known to poison oxygen sensors and must be avoided. For further information please refer to [Application Note AN0043](#).

General Note: SST Sensing Ltd reserves the right to make changes in product specifications without notice or liability. All information is subject to SST's own data and considered accurate at time of going to print.

WARNING

Personal Injury

DO NOT USE these products as safety or Emergency Stop devices or in any other application where failure of the product could result in personal injury. **Failure to comply with these instructions could result in death or serious injury.**

CAUTION

Do not exceed maximum ratings and ensure sensor is operated in accordance with all requirements of AN0043 **Failure to comply with these instructions may result in product damage.**

It is the customer's responsibility to ensure that this product is suitable for use in their application. For technical assistance or advice, please email us: technical@sstsensing.com