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### 🐻 BENEFITS

- No reference gas required
- No need for temperature stabilisation
- Three lengths available; 220mm, 400mm and 600mm
- Screened for use in industrial environments

# X TECHNICAL SPECIFICATIONS

| Heater | voltage | b |
|--------|---------|---|
|--------|---------|---|

| Operating (<15s response)            | $4.2V_{DC} \pm 0.1V_{DC}$ (~1.7A)   |
|--------------------------------------|-------------------------------------|
| Standby                              | 2V <sub>DC</sub> (~0.85A)           |
| Operating (<4s response)             | $4.55V_{DC} \pm 0.1V_{DC}$ (~1.85A) |
| Standby                              | 2V <sub>DC</sub> (~0.85A)           |
| Pump impedance at 700°C <sup>c</sup> | < 6kΩ                               |
| Permissible gas temperature          | -100°C to +400°C                    |
| Gas flow rate                        | 0 - 10 m/s                          |
| Repetitive permissible acceleration  | 5g                                  |
| Incidental permissible acceleration  | 30g                                 |
|                                      |                                     |

## A OUTPUT VALUES

| Oxygen pressure range                    | 2mbar—3bar max |
|--|----------------|
| Accuracy                                 | 5mbar max      |
| Internal operational temperature         | 700°C          |
| Response time (10—90% step)              |                |
| Standard response sensor                 | < 15s          |
| Fast response sensor                     | < 4s           |
| Warm up time (prior to sensor operation) | 60s            |
| Warm up time (from standby)              | 20s            |
| Output stabilisation time                | ~ 180s         |
|  |                |

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### **OUTLINE DRAWING**

#### All dimensions shown in mm.



Where 'X' is the probe length, see Order Information for details.

Where **'Y'** is the cap length;

Standard response - 18mm

Fast response - 15mm

## ELECTRICAL INTERFACE

### Lead Wires

| Wire      | Designation    |
|-----------|----------------|
| Red       | Pump           |
| Black     | Common         |
| Blue      | Sense          |
| White     | Heater (1)     |
| Orange    | Heater (2)     |
| Bare Wire | Drain / Shield |

**NOTE:** Drain / Shield must be correctly terminated to a good ground or earth connection.

## 

Generate your specific part number using the convention shown below. Use only those letters and numbers that correspond to the sensor options you require — omit those you do not.



#### 

Do not exceed maximum ratings and ensure sensor(s) are operated in accordance with their requirements.

Carefully follow all wiring instructions. Incorrect wiring can cause permanent damage to the device.

Zirconium dioxide sensors are damaged by the presence of silicone. Vapours (organic silicone compounds) from RTV rubbers and sealants are known to poison oxygen sensors and MUST be avoided. Do NOT use chemical cleaning agents.

Failure to comply with these instructions may result in product damage.

### 

As customer applications are outside of SST Sensing Ltd.'s control, the information provided is given without legal responsibility. Customers should test under their own conditions to ensure that the equipment is suitable for their intended application.

For detailed information on the sensor operation refer to application note AN0043 Operating Principle and Construction of Zirconium Dioxide Oxygen Sensors.

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



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