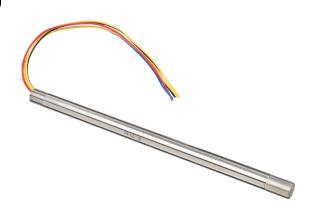
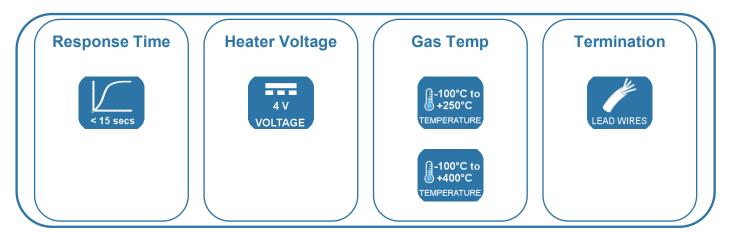
Zirconia O₂ Sensors Probe Series—Long Housing

Zirconium dioxide (ZrO₂) sensing elements

DATA SHEET

- Long life, non-depleting technology
- Integral heating element
- High accuracy
- Requires an external interface board to operate¹





- No reference gas required
- No need for temperature stabilisation
- Two lengths available; 220mm and 400mm

X TECHNICAL SPECIFICATIONS

Heater voltage ²	
Operating	$4V_{DC} \pm 0.1V_{DC}$ (1.7A)
Standby	1.65V _{DC} (0.7A)
Pump impedance at 700°C ³	< 6kΩ
Permissible gas temperature	
Standard temperature	-100°C to +250°C
High temperature	-100°C to +400°C
Gas flow rate	0—10 m/s
Repetitive permissible acceleration	5g
Incidental permissible acceleration	30g

OUTPUT VALUES

2mbar—3bar max
5 mbar max
700°C
< 15s
100s
20s
~ 180s

 NOTES
 1)
 Interface board sold separately; contact

 2)
 It is important to measure the heater volt

3)

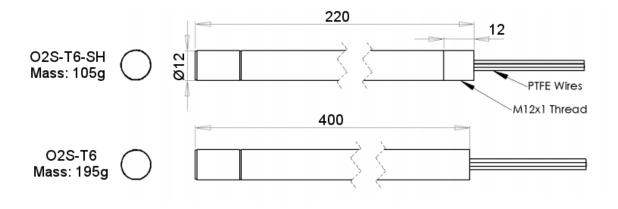
It is important to measure the heater voltage as close to the sensor as possible due to voltage drops in the supply cable.

The constant current source used in the pump circuit should be designed to drive a load of up to $6k\Omega.$

iSweek www.isweek.com

Add: 16/F, Bldg. #3, Zhongke Mansion, No.1 Hi-Tech S. Rd, Hi-Tech Park South, Shenzhen, Guangdong, 518067 P.R.China Tel: + 86-755-83289036 Fax: + 86-755-83289052 E-mail: sales@isweek.com **OUTLINE DRAWING**

All dimensions shown in mm.

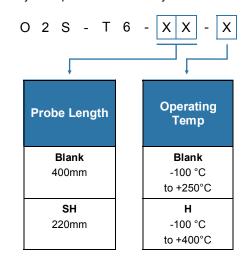




Lead Wires

Wire	Designation
Red	Pump
Black	Common
Yellow	Heater (1)
Blue	Sense
Yellow	Heater (2)

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.



CAUTION 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	Sensors.	
damage.		
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.		



DS-0131 REV 1

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