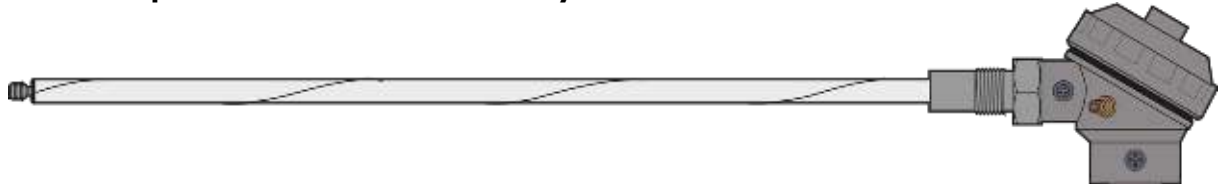


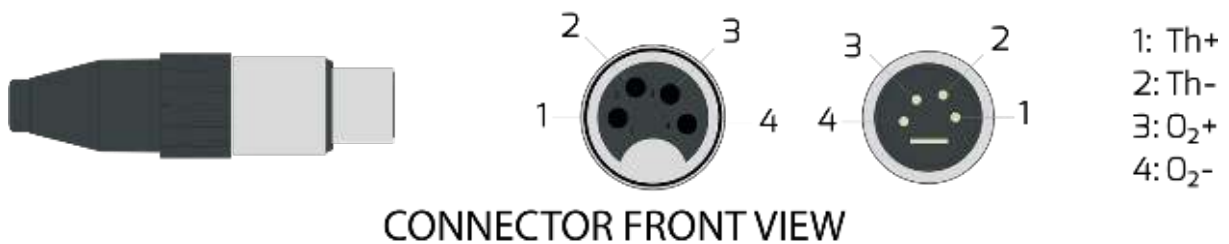
The CarboProbe DS is a laboratory oxygen probe, suitable for measurement of oxygen concentration over the range from pure oxygen down to  $10^{-24}$  atmospheres at temperatures from 600°C to 1700°C. It consists of a ZRO<sub>2</sub> oxygen sensor with an internal thermocouple. All wiring and electrodes are platinum, for the best possible corrosion resistance.

**The CarboProbe DS is supplied with a M16 gas-tight seal often required at the insertion point in scientific laboratory.**



### Key feature

- **Supplied with a M16 vacuum sealed, stainless steel extension tube. This extension tube can easily be fitted into an O-ring seal.**
- **Accurate enough for research laboratory use, but low in cost**
- **Read the probes measurement with a hand-held digital meter, for a quick and simple reading.**
- **Student laboratory experiments - demonstration of the Nernst equation**
- **Combustion and pyrolysis research**
- **Measurement of fuel/air ratios in combustion**
- **Oxygen fugacity measurements in geological specimens**
- Every probe is 100% tested with certification, certificates are enclosed with each probe
- High performance, low cost sensor
- Response time < 1.0 second
- Probes include a 4-pin Cannon type cord plug, ready for connection to any suitable 4-conductor cable



# Specifications

<b>Output</b>	0 to 1200 mV DC over operating range
<b>Readout impedance</b>	This probe should be used with controlling, recording and indicating instruments having input impedance of 8megohms or higher.
<b>Accuracy</b>	±2 mV in normal operating range
<b>Response time</b>	Less than 1.0 second
<b>Thermocouple</b>	Type R, S
<b>Operating Temperatures</b>	600°C to 1700°C
<b>Mechanical shock</b>	Resists mild mechanical shock. Handle carefully
<b>Reference air</b>	Uncontaminated dry air at maximum rate of 1 - 6 l/h
<b>Immersion depth</b>	5 cm minimum

