

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 ZRO₂ 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.

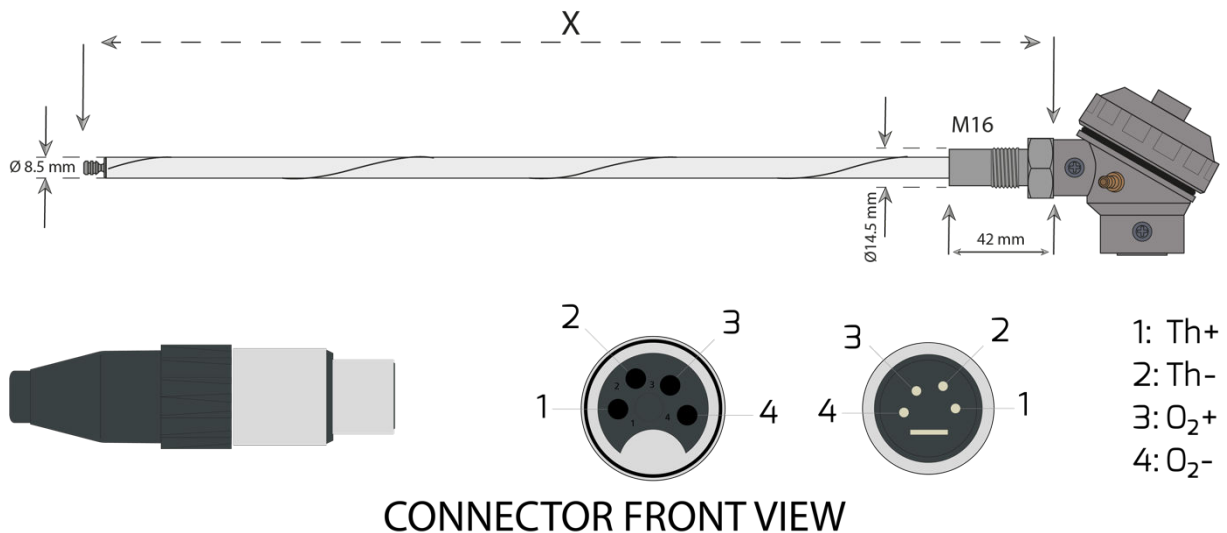


Key features

- 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
- Probes include a 4-pin standard connector, ready for connection to any suitable 4-conductor cable

Specifications

Output	0 to 1200 mV over operating range
Readout impedance	This probe should be used with controlling, recording and indicating instruments having input impedance of 10megohms or higher.
Response time	Less than 1.0 second
Thermocouple	Type R, S
Operating Temperatures	600°C to 1700°C
Mechanical shock	Resists mild mechanical shock. Handle carefully
Available length (X)*	100mm (3.9"), 200mm (7.9"), 300mm (11.8"), 400mm (15.7"), 500mm (19.7"), 600mm (23.6"), 700mm (27.5"), 800mm (31.5"), 900mm (35.4"), 1000mm (39.4), 1100mm (43.3")
Reference air	Uncontaminated dry air at maximum rate of 1 - 6 l/h
Immersion depth	5 cm minimum



For oxygen measurement in carburizing mixtures, please contact us for a more suitable model.

* Other length on request