

Oxygen Probe ME



Function:

ME-S/W probe was developed for very difficult working conditions. It is based on the new ZrO₂ C3M electrolyte and offers excellent accuracy for the measurement of carbon potential (%C) and temperature (°C)

The **oxygen probe** is suitable for direct connection to all reputable C-level control systems.

ME-S/W probe allows a very precise value of oxygen concentration in an industrial furnace to be obtained.

The zirconia carbon sensor has been used for nearly three decades to control the carbon potential in many carburizing applications.

The reproducible internal resistance of the probe permits simple calculation of its residual service life.

The probe can be used in any atmospheric heat treatment process e.g. carburizing.

Advantages

- Designed for difficult working condition
- Based on the brand new ZrO₂ C3M electrolyte
- Ideal for use in carburizing, neutral hardening and gas generator applications.
- Every probe is 100% tested with certification, certificates are enclosed with each probe.
- High reliability of the probe thanks to a simple and effective concept
- Interchangeable with all oxygen probes or carbon sensors.
- Reduces stress on the 4-bore tube, reducing incidents of breakages.
- Low investment resulting in an important improvement of heat treatment

Order number

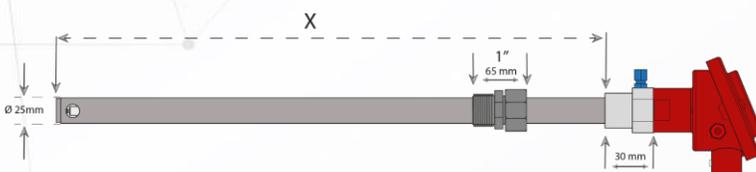
Device name

O2-Probe Type ME with Thermoement Type S

530-4611	MESA Oxygen Probe ME-S 500
530-4614	MESA Oxygen Probe ME-S 650
530-4612	MESA Oxygen Probe ME-S 750
530-4613	MESA Oxygen Probe ME-S 1000
530-4615	MESA Oxygen Probe ME-S 1200
530-4616	MESA Oxygen Probe ME-S 1300

O2-Probe Type ME without Thermoement Type W

530-4601	MESA Oxygen Probe ME-W 500
530-4605	MESA Oxygen Probe ME-W 650
530-4602	MESA Oxygen Probe ME-W 750
530-4606	MESA Oxygen Probe ME-W 850
530-4603	MESA Oxygen Probe ME-W 1000
530-4604	MESA Oxygen Probe ME-W 1200



CONNECTOR FRONT VIEW

- 1: Th+
- 2: Th-
- 3: O₂+
- 4: O₂-

Oxygen Probe ME



Technical data

Output

0 to 1200 mV

Readout impedance

% Carbon sensors should be used with controlling, recording and indicating instruments having input impedance of 10 megohms or higher.

Accuracy

±0.05 weight percent carbon in normal operating range

Working temperature:

600°C to 1150°C

Probe types:

ME-S – with thermocouple or ME-W without thermocouple

Mechanical shock

Resist mild mechanical shock. Handle carefully

Thermal shock

Please place into hot furnace or remove from hot furnace during 10 minute time interval

Available length (mm):

500mm, 650mm, 750mm, 850mm, 1000mm, 1200mm, 1350mm

Reference air

Uncontaminated dry air at maximum rate of 1-6 l/h

Cleaning air

Uncontaminated dry air at maximum rate of 300 l/h
(see user manual for more cleaning recommendation)