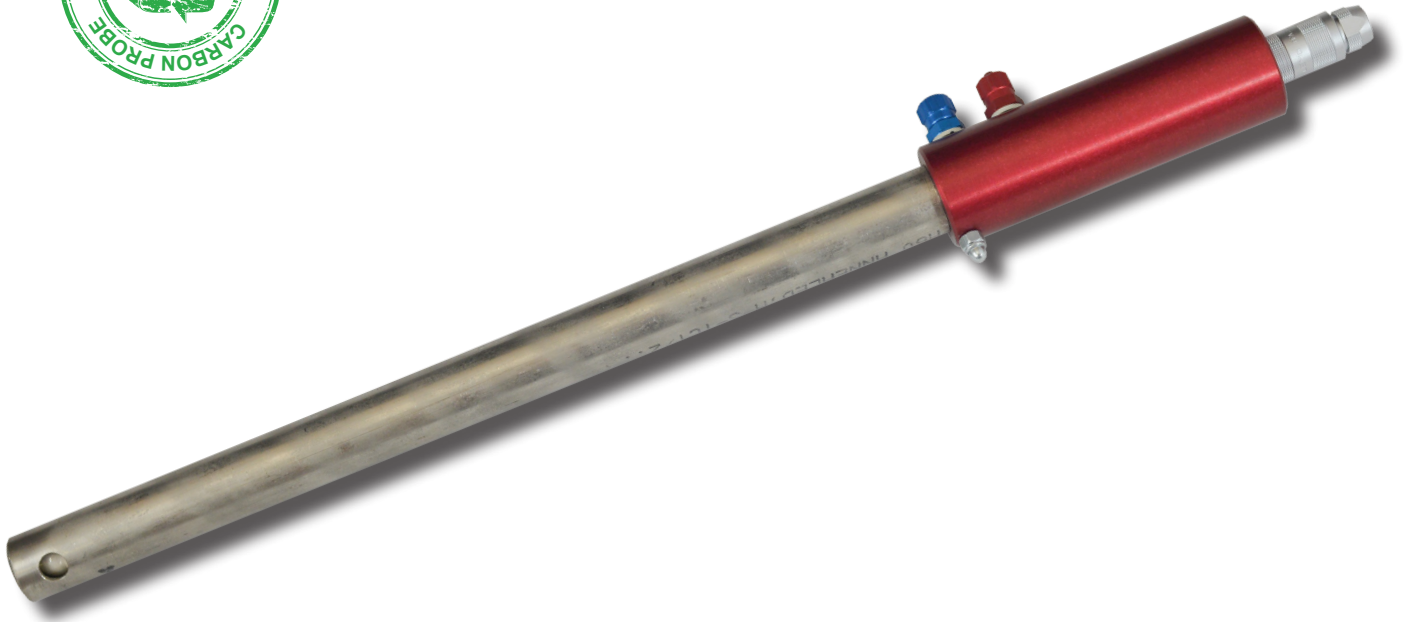


CarboProbeZI Pro



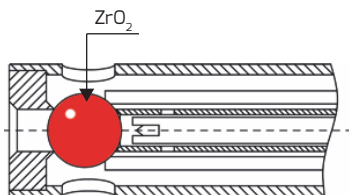
AIR	±0.05C	Ø 25	Ø 35	600°C min	1150°C max
LEMO 4-pin	%C	K	S	N	

A probe with thermal shock resistance

The **CarboProbeZI Pro** features a ball as a measuring element. This proprietary concept allows us to provide you with a high-quality product, offering an excellent accuracy for the measurement of carbon potential (%C) and temperature (°C/°F).

A ball as a measuring element...

- > Very reliable and robust
- > Thermal shock resistance
- > Easily interchangeable



Specifications

Output

0 to 1200 mV

Readout impedance

This probe should be used with controlling, recording, and indicating instruments having input impedance of 8 megaohms or higher.

Accuracy

±0.05 weight percent C in normal operating range

Response time

Less than 1.0 second

Thermocouple

K, S, N, or without

Operating temperatures

600°C (1100°F) to 1150°C (2100°F)

Mechanical shock

Resists mild mechanical shock; handle carefully

Available lengths

500 mm (19.7"), 650 mm (25.6"), 750 mm (29.5"), 850 mm (33.5"), 1000 mm (39.4")

Reference air

Uncontaminated dry air at maximum rate of 30 L/h (849.6 cfh)

Cleaning air

Uncontaminated dry air at maximum rate of 300 L/h (8496 cfh)

External diameter

25 or 35 mm (with protective ceramic tube)

KEY FEATURES

- Thermal shock resistant (can be placed into or removed from furnace quickly)
- Outer electrode has gone through a special surface treatment that reduces corrosion and metal dusting significantly
- Patented, interchangeable ZrO₂ ball used as a measuring element
- Can also be supplied with a protective ceramic outer tube
- Ideal for use in carburizing, carbonitriding, 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
- Low investment resulting in an important improvement of heat treatment