



The ECONOX CarboProbe ZI pro features a ball as a measuring element. This evident and exclusive concept allows us to provide you with a high quality product offering and precise accuracy for the measurement of carbon potential (%C) and temperature (°C)

The ZrO₂ ball as a measuring element has been shown to be very reliable and robust. This patented solution has not ceased to evolve for more than 20 years.



KEY FEATURES

- **Thermal shock resistant (can be placed or removed from furnace quickly)**
- **Outer electrode has gone through a special surface treatment that reduces corrosion and metal dusting significantly**
- **Interchangeable ZrO₂ ball used as a measuring element**
- **Can also be supplied with an outer protective ceramic (see picture)**
- 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
- Response time < 1.0 second
- 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

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
Response time	Less than 1.0 second
Thermocouples	Type K, S, N or without
Operating Temperatures	600°C to 1150°C
Mechanical shock	Resists mild mechanical shock. Handle carefully
Thermal shock	Resists thermal shock
Length available	500mm, 650mm, 750mm, 850mm, 1000mm
Reference air	Uncontaminated dry air at maximum rate of 20 - 30 l/h
Cleaning air	Uncontaminated dry air at maximum rate of 300 l/h

