

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 ZrO<sub>2</sub> 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 ZrO<sub>2</sub> 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 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 30 - 50 l/h

Cleaning air Uncontaminated dry air at maximum rate of 300 l/h







