



The ECONOX CarboProbe™ ST-E 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)

THIS PROBE IS 100% COMPATIBLE WITH THE EURO THERM/SE/BARBER-COLMAN PROBE.

IT IS AN UPDATED VERSION, MORE ROBUST AND PATENTED.



KEY FEATURES

- **Patented design for more security in your working area**
- **High quality (operating temperature 85°C / 185°F) XLR style connector**
- **Designed for difficult working condition**
- **Based on the brand new SIRO₂ ZrO₂ C3M proven electrolyte (SIRO₂ C700 also available)**
- 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.
- Reduces stress on the 4-bore tube, reducing incidents of breakages.
- Standard sheath material Inconel 600
- Can also be supplied with an outer protective ceramic sheath.
- Low investment resulting in an important improvement of heat treatment

Output	0 to 1250 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
Thermocouple	Type K, S, N or without
Operating Temperature	600°C to 1150°C (1112°F to 2102°F)
Mechanical shock	Can resist mild mechanical shock. But handle carefully
Thermal shock	Please place into hot furnace or remove from hot furnace over a 10 minute time interval
Available length (mm)	500mm (19.7"), 650mm (25.6"), 750mm (29.5"), 850mm (33.5"), 1000mm (39.4), 1200mm (47.2"), 1300mm (51.2")
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)

