The ECONOX CarboProbe ZS standard is a cost effective option, offering high reliability, compatibility and accuracy for the measurement of carbon potential (%C) and temperature (°C). It is based on the ZrO2 C-700 electrolyte.

The ECONOX Oxygen Probe is the latest generation of in-situ oxygen sensors using the ZrO_2 solid electrolyte. The probe has been completely redesigned, based on years of practical experience, to eliminate the problems found in other manufacturer's probes.

KEY FEATURES

- **Cost effective and a highly reliable option**
- **Outer electrode design resists sooting and aids probe burn-off**
- **High performance, low cost sensors for heat treating applications**
- Ideal for use in carburizing, carbonitriding, neutral hardening and gas generator applications
- Each probe is tested and certificates are enclosed with each probe
- Response time < 1.0 second
- Independent, calibrated, compression springs for the sensor and 4-bore tube.
- Interchangeable with all oxygen probes or carbon sensors
- Reduces stress on the 4-bore tube, reducing potential damage or incidents of breakage
- Improved electrical contact on expansion and contraction of the sheath
- Improved gas flow across the sensor tip
- 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. Handle carefully
Thermal shock	Please place into hot furnace or remove from hot furnace during 10 minute time intervals
Length available	500mm, 650mm, 750mm, 850mm, 1000mm, 1200mm
Reference air	Uncontaminated dry air at maximum rate of 0.5 - 1 l/h
Cleaning air	Uncontaminated dry air at maximum rate of 300 l/h