



## **EuroSensor** Reliable Low Cost Zirconia Carbon Sensor

The EuroSensor is a precision engineered in-situ zirconia carbon sensor, which can be used in most carbon based heat treating applications. The design is based on over 15 years experience to give unrivalled, repeatability, consistency and service life.

### Features

- Stringent Quality Control system for manufacture, test and certification.
- 12 month pro-rata performance warranty.
- Interchangeable with all oxygen probes/carbon sensors,
- High quality heat resisting alloy outer sheath.
- New internal electrode design enhances electrical contact.
- Independent, compression springs for sensor and 4-bore tube:
  - improved electrical contact on expansion and contraction.
  - reduced stress on 4-bore tube.
- Optional electrical signal connections:
  - easy fit screw terminals.
  - 'fast connect' DIN plug.
- Full technical support.
- Improved flow of reference air.
- Improved gas flow across sensor tip.
- Comprehensive testing and repair service.
- Burn off port with no loss of insertion length.
- Comprehensive operating manual with fault finding guide.



### Standard Types

*EuroSensor* is available in standard lengths

- 600 mm (550 mm insertion length)
- 900 mm (850 mm insertion length)
- Optional compression gland is available to adjust to the correct insertion length.
- Choice of type 'R', 'S', 'N', 'K' or no thermocouple.

### Works in a variety of processes

- Brazing
- Sintering
- Annealing
- Carburising
- Carbonitriding
- Neutral hardening

For more information

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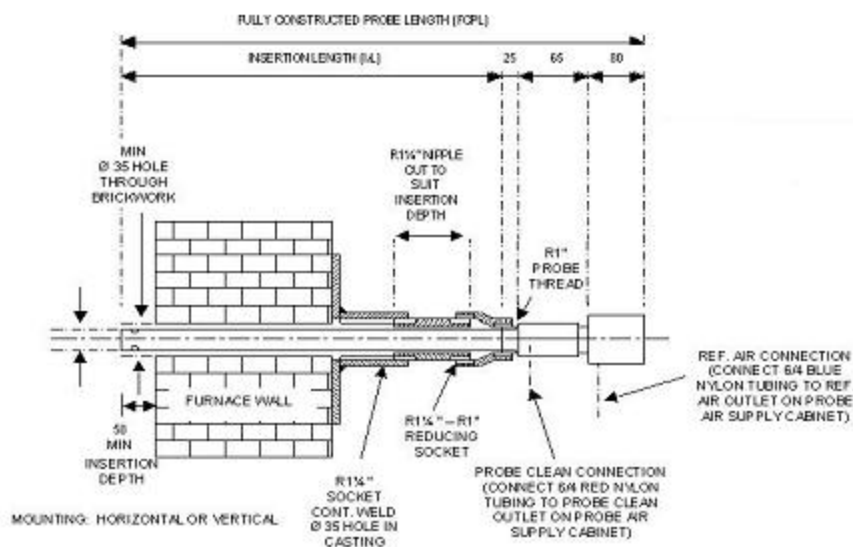


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# EuroSensor Reliable Low Cost Zirconia Carbon Sensor

## Installation & Dimensions



KEY		
PROBE TYPE	I/L	FCPL
ES600 R/S/N/K	550	720
ES900 R/S/N/K	850	1020

## Specification



### EuroSensor Certification Parameters

- Sensor accuracy and repeatability:  $\pm 5$  mV @ 900°C.
- Thermocouple accuracy and repeatability:  $\pm 5$ °C.
- Impedance Test @ 900°C: 6 Kohms - max.
- Probe response time: <10 seconds.
- Allowable Leak rate: 5 mV in 1 minute.
- Minimum reference air flow rate: 400mls/min.

## Other Products

### Instruments

- Setpoint controllers
- Programmable controllers
- Ultracarb 1000 3-gas IR controller
- GasPro 300-C 3-gas analyser

### Systems

- Furnace control panels
- Gas mixing panels
- PLC systems
- Retrofits

### Service

- Probe test/repair
- Calibration
- On-site service
- Service contracts
- Consultancy