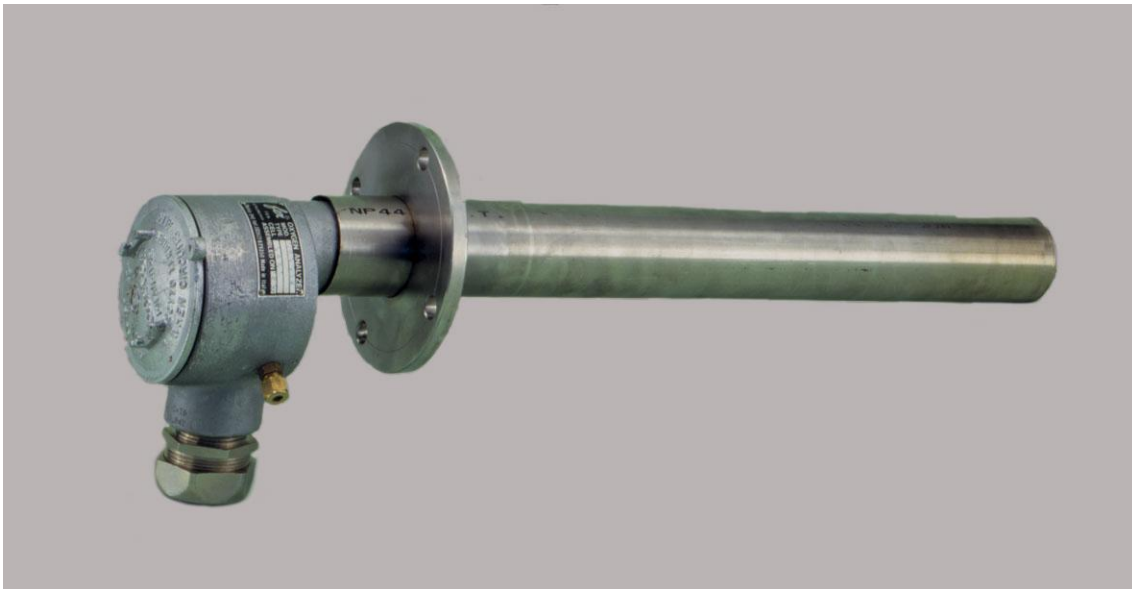


OXYGEN ANALYSER MODEL 5175



- In situ application
- No moving part
- Can be used with any type of fuel
- Low installation and maintenance cost
- Cell, heater and thermocouple easy replaceable
- Control and calibration without disassembling probe

The Fer Strumenti Mod 5175 oxygen analyser uses a fully stabilized zirconium oxide cell. Long experience with high temperature oxygen analysers ensures total confidence in this model which incorporates a heating element to raise the cell to the working temperature. To obtain the correct air/fuel ratio in a combustion process it is essential to measure the content of oxygen present in the flue gas. Such measurement is possible with the 5175 Analyser which measures the percentage of O₂ directly in the stack or ducts; without the need for gas extraction.

PROBE

The probe, manufactured in the best available materials, can be used where the temperature does not exceed 600 °C.

The probe is fitted with an armored electric heater, approved by VDE, which ensures the maximum safety and is not affected by the products of combustion.

The main components of the probe i.e. zirconia cell, heater, thermocouple and internal electrode, can be easily replaced with very simple mechanical procedures.

The probe can be supplied with standard lengths of 350, 500, 1000, 1500, 2000 mm.

Special models up to 4000 mm. long can be supplied to special order.

At the terminal end of the probe a SS flame arrestor is normally fitted.

For dirty processes a ceramic filter, easily replaceable can be supplied.

TECHNICAL SPECIFICATIONS

- Accuracy: 1% of the theoretical value or 0,1% O₂ (whichever is greater) if used if used with Fer Strumenti transmitters.
- Stability: within 1% for the life time of the sensor.
- Operating temperature: for the sensing element max 600°C. For the terminal head: maximum 150°C.
- Response time: less than 5 second.
- Thermocouple: type K.
- Reference air: clean ambient air (flow between 50 and 200 cc/minute).
- Electrical connections: Zirconia measuring element - Thermocouple. Power for the heater.
- Heater: 220 V or 110 V - 200 W max.
- Dimensions: - Ø of the wet part mm. 61 - length: mm. 350, 500, 1000, 1500, 2000 - total length of the probe mm. 500, 650, 1150, 1650, 2150 - fastening: flange Ø mm. 150, 4 holes Ø mm. 14 on Ø mm. 125.
- Weight: About 9-11-15-19-23-27 Kg depending on lengths.

FER STRUMENTI srl
Italia - 20038 SEREGNO (MI) - Via Ripamonti, 58
tel. +39 0362 231203 - Fax +39 0362 330349
e-mail:ferstrumenti@fer-strumenti.com