

CONVERTER MODEL B705



The B705 model converter is a transmitter, which can be placed in the field close to the zirconia probe. The converter receives the signals from the zirconia cell and from the compensation thermocouple, which is fitted inside the probe. The converter can be connected with any model of FER zirconia probes mod. 5175 and 5185 which has the compensation thermocouple type K. Based on a microprocessor associated to analogical-digital converter (12 bit) is equipped of a led display 3½ digit, which shows continuously the percentage of oxygen in volume and on which is possible, pressing a key, show the temperature of the compensation thermocouple and the impedance of the zirconia measuring element.

The converter is equipped with an analogical output 4÷20 mA or 0-10 Vdc isolated, linear and proportional to 0-25% ; 0-10% and 0-5% oxygen content. The three oxygen fields are selectable from the instrument. The electronic converter, can be optionally equipped with a pump, flow meters for reference and calibration of the probe, housed in the same strong water proof metal housing.

Technical specifications

- Input: zirconia cell and associated compensation thermocouple
- Measuring range: oxygen 0,0÷25% in volume with probe temperature within 600 °C compensation thermocouple type K
- Accuracy of the converter when used with Fer Strumenti probe: ±1% of reading or 0.1% vol (the bigger of the two).
- Display: 3 ½; digit red led.
- Analogical active output: 4÷20 mA or 0-10 Vdc linear to on oxygen range of 0.0-25% ; 0.0-10% ; 0.0-5% O2 vol.
- Fail-safe: if the signal from the zirconia cell or from the thermocouple fails, the current output will go to 2 mA
- Digital relay contacts:
 - Oxygen max and min on the range 0,0÷25% O2 resolution 0,1%.
 - Temperature max and min on the range 0÷1590 °C
 - Service
 - Fault (fail safe)
- Mod-bus RTU on RS 485 with oxygen temperature and alarms register
- Power: 220 Volt 50/60 Hz 50 V.A (110 Volt special)
- Housing: water proof (IP 55) metal box IP 55
- Dimensions: 300 x 400 x 150 mm
- Weight: kg 11

Options

- Pneumatic kit: membrane pump, flow meter for reference air, flow meter for calibration gas (see photo).



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C-100050 rev.0