

OXYGEN ANALYSER MOD. E705



The analyzer is based on a yttria stabilized zirconia cell, that supply the relevant advantages that this measuring principle can guarantee. The absence of cross sensitivity with other gases due to the oxygen vacancy generated in the zirconia substrate is one of the most important feature.

The peculiar drawing of the analysis chamber allows the changing of the flow of the sample without affecting the O₂ measure.

The analyzer does not require regular calibrations because it is fully temperature compensated.

The measuring principle that does not need any moving parts, ensures a very long life without any service.



The measuring range by volume is very wide O₂ values and diagnostic are transmitted with analogical, serial and digital output. Optionally the Hart protocol is available.

This very tough instrument, is ideal to be used in a system for emission monitoring. It cannot be used for measuring O₂ in a gas that contains combustibles, because the zirconia cell is warmed up to high temperature.

The instrument includes an alarm of lack of flow, a suction pump and a flow-meter with niddle valve for regulating the flow of the sample and test gases.

TECHNICAL SPECIFICATIONS

Gas analyzed	Oxygen in gas phase
Measuring principle	Stabilized zirconia
Measuring field	1 ppm – 25% O2 by volume
Accuracy	+/- 0.5 of true value or 0.1% O2 whichever is the greater
Repeatability	Within 1%
Response time (90%)	< 10 sec. With a flow 3 l/min
Flow of the sample gas	0.5 – 3 l/min
Flow adjusting	Niddle valve of the flowmeter.
Analog outputs	4 – 20 mA isolated, max load 500 ohm or 0 – 10 V 10 mA linear on one of the following selectable fields: 0 – 1999 ppm; 0 – 5%; 0 – 10%; 0 – 25% , if the value is not valid the output is switched to 2 mA.
Serial outputs	Mod Bus RTU on RS 485
Options	Hart protocol
Alarms	Potential free for: O2 high, O2 low, measure not valid, servicing, lack of flow. For all 250 V, 1 A max.
Dumper	Time constant selectable from 0 and 900 sec.
Power supply	230 e 115 V AC +/- 10% 50/60 Hz 300 VA max
EMC	According EN 50081 e 50082
Electrical safety	According EN 61010 – 1
Temperature limits	0 – 40°C
Humidity	< 90% non condensing
Storage temperature	- 40 / +80°C
Sample gas input and output	tubing mm. 6x4
Test gas input	tubing mm. 6x4
Housing	Rack 19" 3 units IP20
Dimensions	450x132 mm, deep 380 mm
Weight	9 Kg approx.
Pump	Diaphragm 3 l/min., max. 100 mm. H2O. Excludable

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