V.03 06/25

Oxygen Transmitter

TREC

Main characteristics

- Easy to use
- Accuracy and repeatability
- Fast response

Main applications

- Thermal treatment
- Inerting
- Gas blending
- On site nitrogen generator

The transmitter TREC is designed for oxygen measurement in gas, in the field of low contents.
It provides total functionality in a standard, low cost unit to fulfill the needs of almost any user.
The instrument is fully self contained, comprising sensor and electronics housed in an industrial enclosure manufactured in stainless steel.
The transmitter TREC uses 2 wires technology, which requires a 18-30 VDC power source. It delivers an 4-20 mA analogue output signal, linear and proportional to oxygen content.
The instrument offers 2 working ranges (to be specified, between 0-100 ppm and 0-10000 ppm for low contents version and between 0-1% and 0-100% for % version).
Moreover, the low contents version offers a service range 0-25 % for calibration using ambient air.
TREC is installed by diverting a sample of the gas through its housing (gas inlet/outlet 1/8'' NPT).

Technical characteristics

Measurement principle	Electrochemical cell (several types depending on gas components)
Ranges	Max 0-10000 ppm for low contents version Max 0-100% for % concentration 0-25% for calibration using ambient air
Accuracy	1% of full scale
Power supply	24 VDC (± 20%), 2 wires wiring
Analogue output signal	4-20 mA linear, corresponding to full scale
Operating temperature	From +5°C to +50°C
Temperature compensation	Between +5°C and +40°C
Materials in contact with gas	Stainless steel (except cell)
Recommended flow rate	From 0.5 to 1 L/min
Recommended pressure	Atmospheric pressure ± 10%
Dimensions (L * l * h)	100 * 180 * 80 mm
Weight	800 g

Technical specifications may change without previous warning

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Codification

Device				
TREC	ARCTREC			
Measurement				
O_2 ppm (electrochemical cell : 0 – 100ppm to 0 – 1000ppm)		ppm		
O_2 % (electrochemical cell : 0 – 1% to 0 – 10%)		%		
O_2 %, electrochemical cell compensated in CO_2, acids and hydrocarbons		B130CO2%		
Options				
Remote sensor			BAG	
Display option			_OAF	

Spare parts	
O_2 ppm electrochemical cell	ARCB210+
O_2 % electrochemical cell	ARCB310+

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