Advanced Instruments Inc.

Technical Specifications

Accuracy:	< 1% of FS range under constant conditions
Analysis:	0-100 PPM, 0-1000 PPM, 0-1%, 0-25% FS ranges; auto-ranging or manually lock on single range
Application:	Oxygen analysis in inert, hydrocarbon, helium, hydrogen, mixed and acid (CO_2) gas streams
Approvals:	EC TYPE EXAMINATION CERTIFICATE: INERIS 08ATEX0036
	II 1 G Ex ia IIB T4 T_{amb} -20^{0}C to +50^{0}C
Area Classification:	Meets the recognized intrinsic safety standards for use in Class 1, Division 1, Group C, D hazardous
Calibration:	Air or certified span gas of O_2 balance N_2 approximating 80% of range above analysis range recommended
Compensation:	Barometric pressure and temperature
Connections:	1/8" compression tube fittings
Controls:	Water resistant keypad; menu driven range selection, calibration and system functions
Display:	Graphical LCD 2.75" x 1.375"; resolution 0.1 PPM; displays real time ambient temperature and pressure
Enclosure:	Painted aluminum NEMA 4X, 4"x9"x3", 8 lbs.
Flow Sensitivity:	None between 0.5-5 SCFH, 1-2 SCFH recommended
Linearity:	±1% of full scale
Pressure:	Inlet - regulate to 5-30 psig to deliver 1-2 SCFH flow to transmitter; vent - atmospheric
Power:	24 VDC
Recovery Time:	60 seconds in air to < 10 PPM in < 1 hour on N_2 purge
Response Time:	90% of final reading in 10 seconds
Sample System:	None
Sensitivity:	< 0.5% of FS range
Sensor Model:	GPR-12-100-M for inert gases; XLT-12-100-M for gases containing > 0.5% CO2
Sensor Life:	24 months at 25ºC and 1 atm.
Signal Output:	4-20mA
Operating Range:	Recommended -10 ºC to 45ºC (GPR sensor), -20º to 45ºC (XLT sensor)
Warranty:	12 months analyzer; 12 months sensor
Wetted Parts:	Stainless steel

Optional Equipment

Sample conditioning system - Contact factory.

GPR-1500 D ATEX

2 Wire Loop Powered O_2 Transmitter

ATEX Directive 94/9/EC

INERIS 08ATEX0036

II 1 G
Ex ia IIB T4
T_{amb} -20^{0}C
to +50^{0}C

Intrinsic Safety Barrier
MTL7706+ OR EQUIVALENT

CE 0080

ISO 9001:2000 QA System
INTERTEK Certificate No.485

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