

MOD-1040

OXYGEN ANALYZER

MOD-1040 Oxygen Analyzer is designed to provide accurate and reliable measurements of oxygen levels in high-pressure pipeline, making it ideal for a range of industrial applications. With its advanced optical sensor technology and rugged construction, MOD-1040 delivers precise measurements even in the harshest of conditions. Its user-friendly interface and intuitive controls make it easy to operate, while its compact design allows for easy installation directly on process pipe without any sample extraction.

FEATURES:

Key features of the Oxygen Analyzer for high-pressure applications include:

- High-accuracy measurement of oxygen levels up to 100%
- Explosion proof certified: ATEX & IECEx
- Response time (T90): <5 sec
- Ambient temperature: -10 to 60°C
- Rugged construction and compact design for reliable operation in harsh environments
- Flexible installation options to suit a variety of industrial applications

BENEFITS:

Whether you're working in the oil and gas industry, hydrogen production, chemical processing, or any other process industry, the MOD-1040 Oxygen Analyzer is the ideal solution for precise and reliable oxygen measurement in high-pressure applications.

Industrial gas production systems, including those for hydrogen and oxygen, typically involve the use of equipment rated for both non-hazardous and hazardous locations. One approach to lowering installation costs is to utilize general-purpose equipment, but this may only be feasible if the risk of gas leaks is minimized.

Reducing the potential for leaks can create difficulties in sampling gas from high-pressure pipelines, making it challenging to perform accurate oxygen analysis. Traditional oxygen analysis technologies, including paramagnetic, zirconia, coulometric and TDL, are not designed to withstand high gas pressures and therefore require gas sample extraction and conditioning prior to analysis. MOD-1040 allows for direct measurement of oxygen content in high-pressure pipelines, eliminating the need for gas sample extraction or conditioning.



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TECHNICAL DATA

Analyzer performance:

Range:	0-50%
Repeatability:	0.02%
Accuracy:	0.05% (low range) 0.4% (full range)
Zero Drift / week:	< 0.04%
Lower detection limit:	< 0.05% @ atmospheric pressure < 5 ppm @ 100 Barg
Response time (T90):	< 5 sec
Options:	- temperature compensation - pressure compensation - measuring ranges up to 100%

Technical details:

Power supply:	24 VDC
Outputs:	2 x 4-20mA
Communication interface:	MODBUS / RS485
Operation temperature:	-10 to 60°C
Ingress protection:	IP 67
Hazardous area:	ATEX/IECEX Zone1 (II 2 G Ex d IIC T4 Gb)
Options:	- Tropicalization - Remote display

Sample requirements:

Maximum sample pressure:	200 Barg
Maximum sample temperature:	60 °C
Gas requirements:	clean / non-corrosive
Process connection:	NPT ½"
Material:	Stainless Steel (SS316)
Options:	- Titanium, Hastelloy, other materials - Extended maximum temperature - Extended maximum pressure - Extraction flowcell - Customized sample systems

