



# OXYvisor™



OPTICAL OXYGEN PROCESS ANALYZER

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TRACE (PPM) TO % LEVEL  
OXYGEN ANALYZER

FIELD-MOUNTABLE, RUGGED  
ENCLOSURE - NEMA 4X, IP66

REMOTE SUPERVISORY  
MEASUREMENT

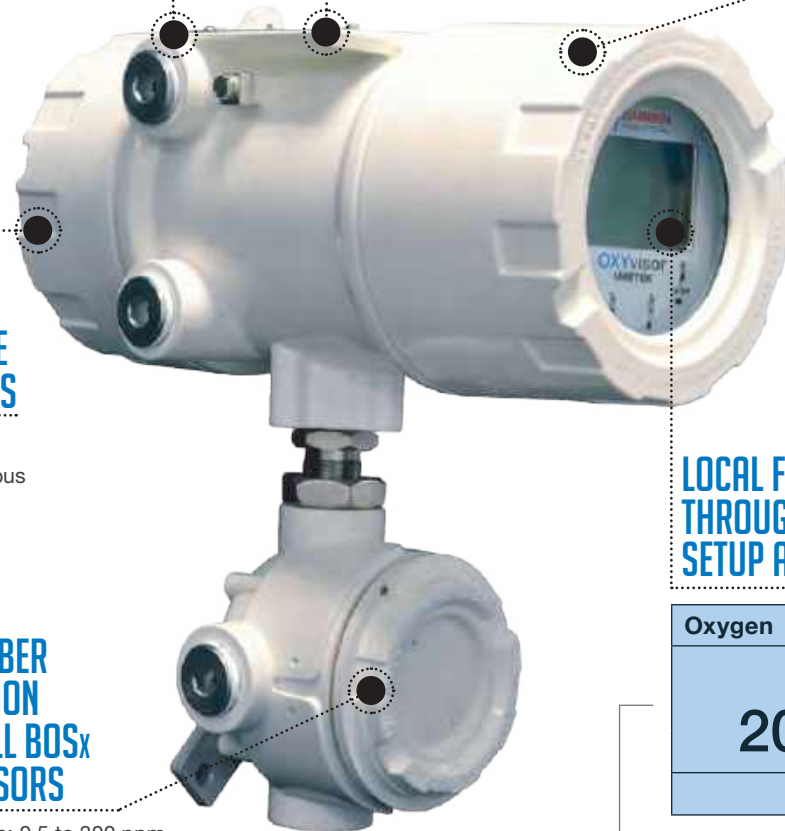
- Auto-Calibration
- Remote Validation
- Insitu or On-Board Ambient Pressure Compensation
- Insitu Temperature Compensation
- Datalogging (process measurement, calibrations and errors)

PROGRAMMABLE  
INPUT / OUTPUTS

- Analog mA Output
- Digital RS485 Modbus
- Digital Relays
- USB - Port

EASY-ACCESS FIBER  
OPTIC CONNECTION  
WORKS WITH ALL BOSx  
OPTICAL O<sub>2</sub> SENSORS

- BOS3 - Trace Range: 0.5 to 300 ppm
- BOS1 - Mid Range: 0 to 5% O<sub>2</sub>
- BOS2 - High Range 0 to 25% O<sub>2</sub>



- CALIBRATION
- INPUT/OUTPUT
- MEASUREMENT & UNITS
- DIAG-TEST SECURITY
- DATALOGGING
- HELP ERROR CODES

LOCAL FIELD-DISPLAY HMI WITH  
THROUGH-THE-GLASS OPERATION,  
SETUP AND CONFIGURATION

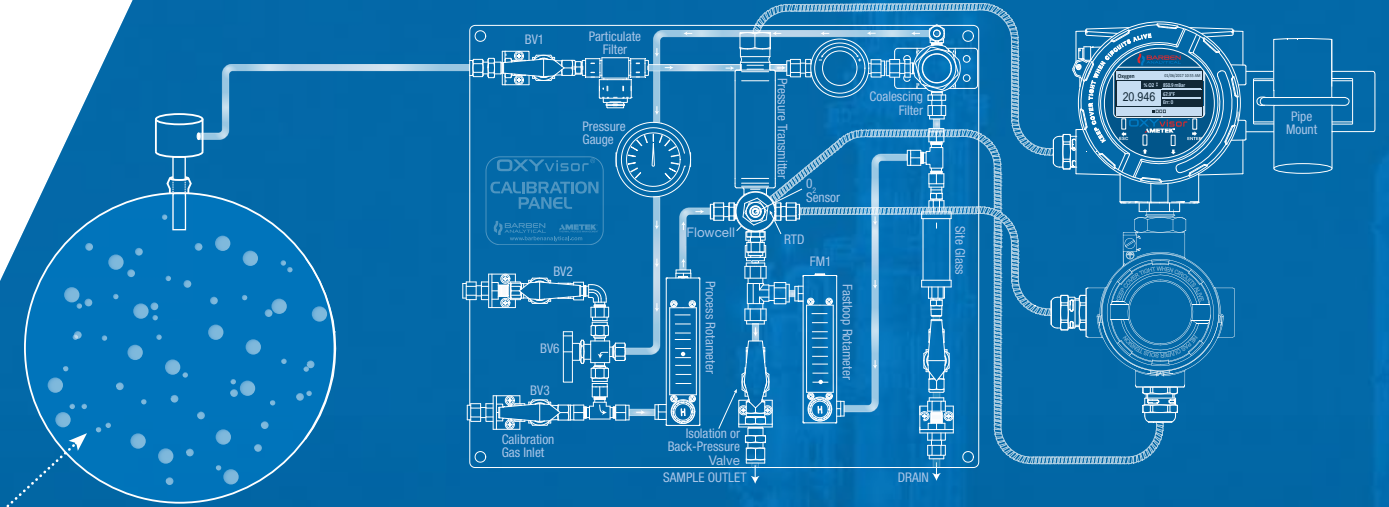
<b>Oxygen</b>		01/06/2017 10:55 AM	
% O <sub>2</sub> ↓	850.9 mBar		
<b>20.946</b>	67.9°F		
	Err: 0		

Alternate Main Display			
Oxy	20.948% O <sub>2</sub>	Phase	29.34°
Sample	5 sec	Amp	28,716
Temp	67.9°F	Error	0
Pres	850.9 mBar	Time	10:55 AM

Input/Output Display	
1. Analog Out 1	17.49 mA (Oxy)
2. Analog Out 2	0.0mA (N.A.)
3. Analog In	12.21mA (Temp)
4. Relay Out 1	Open (Cal)
5. Relay Out 2	Open (Cal)

O <sub>2</sub> & Temp ↓	20.948% O <sub>2</sub>	67.9°F	3h 50m 21s
100% O <sub>2</sub>		212°F	

### GENERAL EXAMPLE: EXTRACTIVE MEASUREMENT INSTALLATION



SAMPLE PROBE - EXTRACT PROCESS SAMPLE

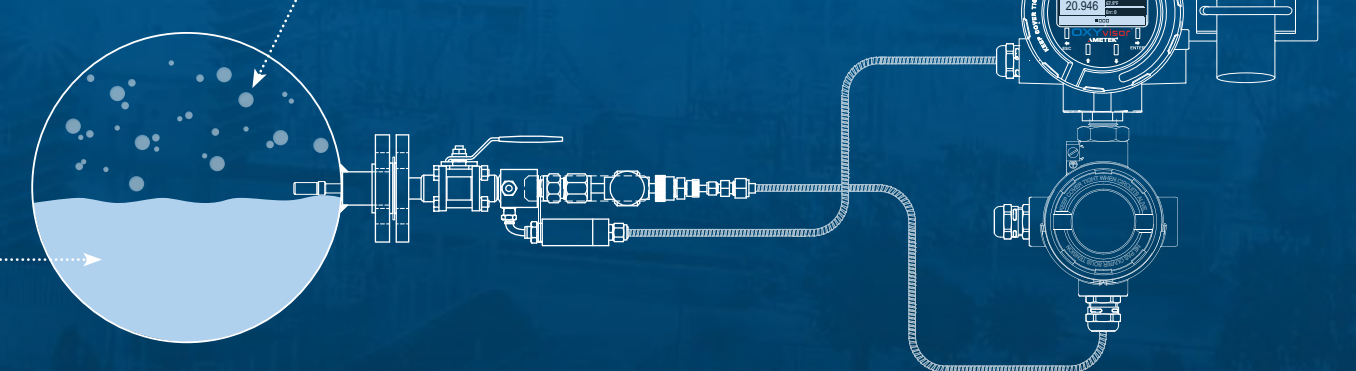
SAMPLE CALIBRATION PANEL WITH O<sub>2</sub>, PRESSURE AND TEMPERATURE SENSORS - MANUAL VERSION

OXYGEN ANALYZER

- Gas Phase Applications:**
- Hydrocarbons - w/ H<sub>2</sub>S and CO<sub>2</sub>
  - Nitrogen Headers
  - Annealing Furnaces - w/ H<sub>2</sub>
  - Biogas
  - Upstream Natural Gas Applications
- or
- Liquid Phase Applications:**
- Enhanced Oil Recovery (EOR) - Waterflood and Floodwaters
  - Produced Water
  - Deaerators
  - Ethanol / Methanol
  - Dissolved Oxygen

- NATURAL GAS:** Corrosion Prevention, Upstream (gathering lines, booster stations), Midstream (fractionation plant), Gas Processing, Pipeline (transmission), Metering Stations, Custody Transfer, LNG, Hydraulic Fracturing, Vapor Recovery Units (VRU's), Compressors
- OFFSHORE:** EOR Waterflood and Floodwater, Minox Nitrogen Generation
- CHEMICAL / PETROCHEMICAL:** Tank Blanketing, Nitrogen Headers, Refrigerants
- REFINERIES:** Merox (disulphide), Flare Systems, Tank Blanketing, Aenerobic Digesters
- MANUFACTURING:** Annealing Furnaces, Fiber Optic

### GENERAL EXAMPLE: INSITU MEASUREMENT INSTALLATION



SAFETAP - INSITU PROBE WITH O<sub>2</sub>, TEMPERATURE AND PRESSURE SENSORS

OXYGEN ANALYZER

Global Hazardous Area Approvals IEC, ATEX, CEC, NEC  
Class I, Division 2, Groups A, B, C & D, T4A  
Zone 1 (Gb) and Zone 2 (Gc) Gas Group IIC T4





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