**XDP Explosion-proof display**

The XDP explosion-proof display provides the measurement of percent or ppm oxygen or hydrogen gas. The explosion-proof XDP is certified for use in Class 1, Division 1, Groups B, C and D as well as Zone 1 ATEX/IECEX Ex d IIC T6 Gb hazardous areas.

The XDP features advanced microprocessor-based electronics, a magnetic, through-the-glass keypad, a universal power supply (magnetic), one 0/4 to 20 mA or 0 to 2 VDC analog output, four process alarms, and a fault alarm.

**Auto-verification/auto-calibration**

The XDP provides long-term, hands-off operation with this optional feature. When initiated, the XDP controls solenoid valves in the sample system to bring zero and span gases to the transmitter. Then the XDP software compares calibration gas readings with factory data to verify proper calibration. If an adjustment is necessary, the XDP makes corrections automatically and notifies the user via the front panel display and alarm contacts.

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**Applications**

Explosion-proof display/controller for use with
- XMO2 thermoparamagnetic oxygen transmitter
- XMTC thermal conductivity hydrogen/gas transmitter
- OXY.IQ electrochemical oxygen transmitter
- Any other 4 to 20 mA output transmitter

**Features**

- Explosion-proof for Class 1, Division 1, Group B, C and D hazardous areas, Nema 4X
- Flameproof for ATEX II 2 G Ex d IIC T6 Gb IECEX Ex d IIC T6 Gb IP66
- Magnetic through-the-glass keypad
- Universal AC input, Optional 24VDC input
- 24 VDC power supply for XMO2, XMTC or OXY.IQ
- Software for measurement of percent or ppm oxygen or hydrogen
- Three-curve software for hydrogen-cooled generator
- Programmable process relay contacts
XDP specifications

**Functional**

**Analog output**
Linearized isolated 4 to 20 mA, 0 to 20 mA or NAMUR user-selectable, field-programmable output for any range from 0 to 100 percent or 0 to 10,000 ppm.

**Input power**
85 to 264 VAC, 47 to 63 Hz, 40 W
24 VDC (±0.2V), 40W

**Fuse**
1.25 A (AC units)
2.0 A (DC units)

**Analog input**
4 to 20 mA

**Output power supply**
24 VDC ±2 VDC at 1.2 Amp

**Ambient temperature range**
14°F to 140°F (–10°C to 60°C)

**Keypad**
Magnetic, through the glass, six keys

**Display**
Four-line, backlit liquid crystal display

**Display accuracy**
±0.25% of full scale

**Relay outputs**
- Contact ratings: 2 A, 28 VDC, SPDT
- Programmable as fail-safe or nonfail-safe

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XDP dimensions in inches (mm)
XDP specifications

Standard software for O₂/gas analysis

Measurement Range Examples
- 0 to 10; 100; 1,000; or 10,000 ppm O₂
- 0% to 1%; 10%; 21%; 25%; or 100% O₂

Relays
- Four process alarms
- One fault alarm
- Two automatic calibration contacts
- Two calibration alarms

Hydrogen-cooled generators

Three ranges
- 0% to 100% H₂ in air
- 0% to 100% H₂ in CO₂
- 0% to 100% air in CO₂

Relays
- Two process alarms
- One fault alarm
- One normal alarm

Environmental
- Weather proof/explosion proof enclosure type 4X/IP66. FM/CSA Class I, Division I, Group B, C and D
- Flameproof: KEMA 01ATEX2128 II 2 GD EEx d IIC T6 T85°C

European compliance
- Complies with EMC directive 2014/30/EU and low voltage directive 2014/35/EU

Conduit/cable gland entry
- Six 1/2 in NPTF conduit ports

Mounting holes
- Four 3/8 in (10 mm) holes

Order information

Record selected option in blank indicated at bottom of form.

XDP explosion-proof display for use with XMO2, XMTC and OXY.IQ

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<tr>
<th>Software</th>
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<tr>
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Use this number to order product
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