XDP

Panametrics
Explosion-proof display

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 I, 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 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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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

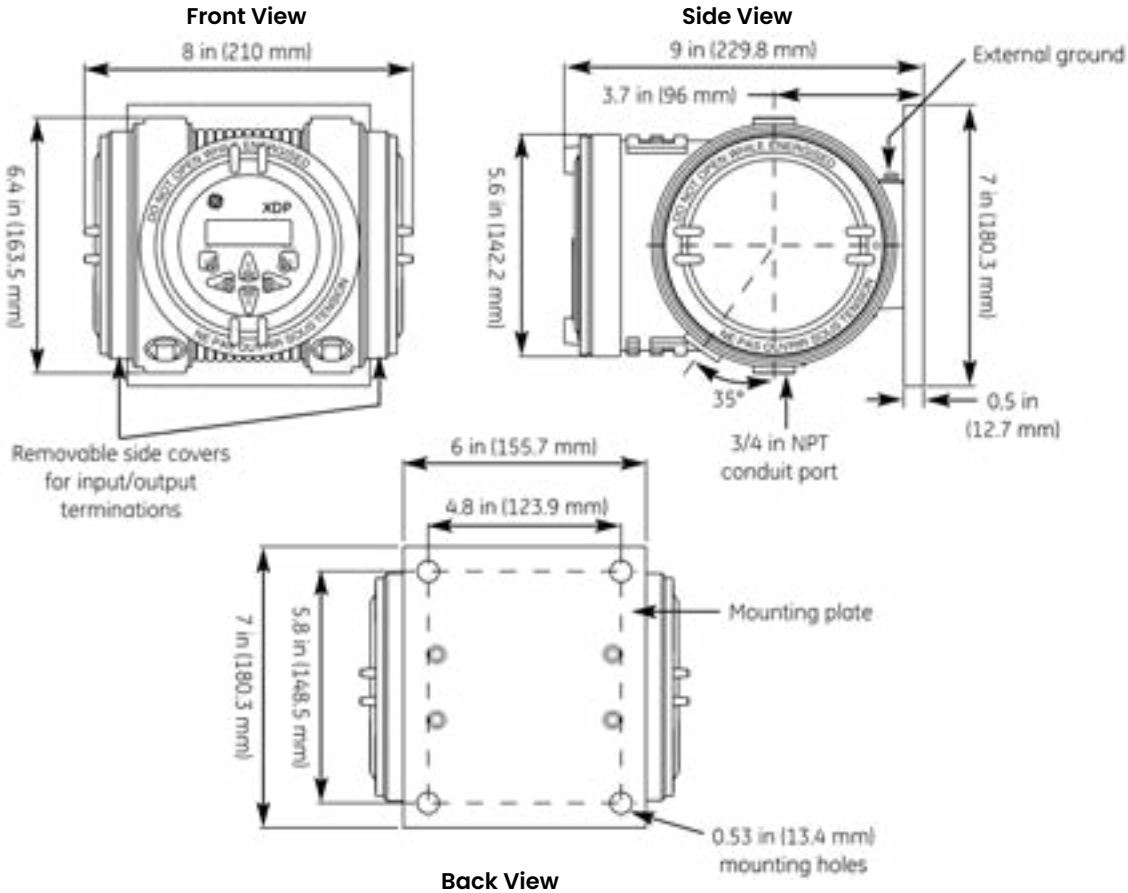
Ambient temperature range
14°F to 140°F (–10°C to 60°C)

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



XDP dimensions in inches (mm)

XDP specifications

Standard software for O_2/gas analysis

Measurement Range Examples
- 0 to 10; 100; 1,000; or 10,000 ppm O_2
- 0% to 1%; 10%; 21%; 25%; or 100% O_2

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

Hydrogen-cooled generators

Three ranges
- 0% to 100% H_2 in air
- 0% to 100% H_2 in CO_2
- 0% to 100% air in CO_2

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

Physical

Dimensions (w x h x d)
9 in x 10 in x 9 in. (229 mm x 254 mm x 229 mm)

Weight
15 lb (6.8 kg)

Environmental
- Weather proof/explosion proof enclosure type 4X/IP66. FM/CSA Class I, Division 1, 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

B **Package**
- 2 Explosion-proof/weatherproof enclosure

C **Power**
- 2 100-240VAC
- 5 24VDC

D **Keypad**
- 1 Magnetic keypad

E **Software**
- 1 Standard
- 2 Hydrogen-cooled generator

Z **Special**
- 0 None
- S Special

XDP: _ _ _ _ Use this number to order product

MISURA & AUTOMAZIONE

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Panametrics, a Baker Hughes Business, provides solutions in the toughest applications and environments for moisture, oxygen, liquid and gas flow measurement. Experts in flare management, Panametrics technology also reduces flare emissions and optimizes performance.

With a reach that extends across the globe, Panametrics' critical measurement solutions and flare emissions management are enabling customers to drive efficiency and achieve carbon reduction targets across critical industries including: Oil & Gas; Energy; Healthcare; Water and Wastewater; Chemical Processing; Food & Beverage and many others.

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