

OILFIELD AUTOMATION PRODUCTS INC.

Model OAP4300

*Media Isolated, Pressure Transmitter UL/cUL
Approved for Hazardous Location Areas*



OVERVIEW

The OAP4300 is a high accuracy, high quality all stainless steel media isolated pressure sensor intended for use in the measurement of gases and liquids compatible with stainless steel. This series is approved to UL 1604 (CSA 213) Class 1 Div 2, Groups A, B, C and D for use in hazardous location areas. OAP4300 transducers are suitable for use in oil patch regions, refineries, water treatment plants, natural gas compressors and pharmaceutical applications. This product has been designed specifically for applications with demanding price and performance requirements. The OAP4300 offers a wide range outputs. The high strength stainless steel construction contains no silicone oil, no welds and no internal O-rings. Measurements are available in gauge pressure covering ranges up to 10,000 PSI!

WARRANTY

Workmanship - OA Products, Inc. pressure transmitters have a limited one-year warranty to the original purchaser. OA Products, Inc. will replace or repair, free of charge, any defective transmitter. This warranty does not apply to any units that have been modified; misused, neglected or installed where the application exceeds published ratings.

Installation/Applications - The purchaser is responsible for media compatibility, functional adequacy, and correct installation of the transmitter.

BENEFITS

- High Strength Stainless Steel Construction
- No Silicone Oil, No Welds, No Internal O-rings
- Wide Operating Temperature Range
- Ranges from Vacuum to 10,000PSI
- Low Static and Thermal Errors
- Unparalleled Price and Performance
- Rugged Design Survives Harsh Environments
- Wide Media Compatibility Suitable for High Shock and
- Vibration Applications

APPLICATIONS

- Refrigeration
- Industrial OEM Equipment
- Oil & Gas Platforms
- Test Stands
- Pressure Instrumentation
- Gas Compression & Storage
- Energy & Water Management
- Pressure Instrumentation
- Process Control

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MODEL OAP4300

Media Isolated, Pressure Transmitter UL/CUL Approved for Hazardous Locations Areas



detailed specifications

Performance @ 25°C (77°F)

Accuracy ¹	< ± 0.25% BFS
Stability (1 year)	±0.25%FS, typ
Overrange Protection	2X Rated Pressure
Burst Pressure	5X or 20,000 psi whichever is less.
Pressure Cycles	>100 Million
Agency Approval	UL1604 (CSA 213) Class I, Div II, Groups A, B, C & D

¹ Accuracy includes: Non-linearity, Hysteresis and Non-repeatability



Environmental Data

<i>Temperature</i>	
Operating	-40 to 85°C (-40 to 185°F)
Storage	-40 to 125°C (-40 to 250°F)
<i>Thermal Limits</i>	
Compensated Range	0 to 55°C (30 to 130°F)
TC Zero	<±1.5% of FS (±3.0% for 0-25 psi)
TC Span	<±1.5% of FS
<i>Other</i>	
Shock	100G, 11msec, 1/2 sine
Vibration	20G peak, 20 to 2400 Hz
EMI/RFI Protection:	100V/m, 150KHz to 1GHz
Rating:	IP-65

Physical Description

Wetted Material	17-4PH stainless steel NACE compatible (for other materials, consult factory)
Electrical Connection	1/2" conduit pipe w/cable (for other cable lengths, consult factory)
Case (housing)	304 stainless steel

ORDERING INFORMATION

Construct a product code using the chart below. (Consult factory for other options.)

OAP4300-A-00500-P-3-L-0-000

Series Type	Process Connection A=1/4" NPT Male, B=1/8" NPT Male, I=1/4" NPT Female, P=1/2" NPT Male	Pressure Range Insert 5-digit pressure range code from chart below.	Pressure Unit B=BAR, K=kg/cm2, P=PSI	Outputs 1=0.5-4.5V, 3=1-5V, 4=4-20mA, 6=1-6V	Electrical Interface L=2Ft. w/conduit, M=4Ft. w/conduit, N=6Ft. w/conduit	Wetted Material 0=17-4PH, 1=316 L, 2=INCONEL 718	Options
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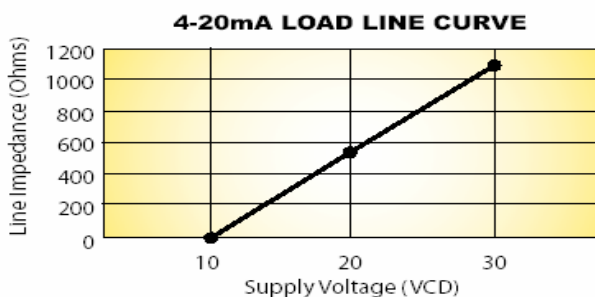
Pressure Ranges**

Psi, gauge	Proof psig	Burst psig	Pressure Range Code
0-25	50	250	00025
0-50	100	250	00050
0-100	200	500	00100
0-200	400	1000	00200
0-500	1,000	2500	00500
0-1,000	2,000	5000	01000
0-2,500	5,000	12,500	02500
0-5,000	10,000	20,000	05000
0-7,500	15,000	20,000	07500
0-10,000	20,000	20,000	10000

* Typical Ranges. All ranges between 0-25psi and 0-10,000psi are available.
* Compound ranges (vacuum to positive pressure) available.

Electrical Data

Excitation	10-28VDC, Typ.	10-28VDC, Typ.	5VDC
Output	4-20mA	Voltage (1-5V)	0.5-4.5V Ratiometric
Current Consumption	20mA max	<10mA	<5mA
Bandwidth	(-3dB): DC to 250 Hz	(-3dB): DC to 1kHz	(-3dB): DC to 1kHz
Zero Offset	<±1.0%	<±1.0%	<±1% of FS
Span Tolerance	<±2.0%	<±1.5%	<±2% of FS
Output Noise	-	<2mV RMS	<2mV RMS
Output Load	See Load Line Curve Below	10k Ohms, Min.	10k Ohms, Min.
Reverse Polarity Protection	Yes	Yes	No



Dimensional Data

