

OILFIELD AUTOMATION PRODUCTS INC.

Model OAP4600 Explosionproof

*CSA Approved for Hazardous Locations
All Media OEM Pressure Transducer
Factory Sealed*



OVERVIEW

The OAP4600 is a price competitive, 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 CSA 30 (UL 1203) Class 1, Div. 1, Explosionproof, Groups A, B, C, and D for use in hazardous location areas. OAP4600 transducers are factory sealed and 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 competitively prices OAP4600 offers a wide range outputs. The high strength stainless steel construction contains no silicon oil, no welds and no internal O-rings. Measurements are available in sealed gauge pressure covering ranges up to 10,000 PSI!

The OAP4600 is ideal for applications needing high accuracy, excellent long-term stability, trouble free operation, long life and high performance. The OAP4600 is backed by OAP's one-year warranty.

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. The sensor must be protected from mechanical damage when properly installed.

BENEFITS

- High Strength Stainless Steel Construction
- No Silicone Oil, No Welds, No Internal O-rings
- Wide Operating Temperature Range
- Ranges from 50 to 10,000 PSI
- 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

- Industrial OEM Equipment
- Natural Gas Compressors
- Pipe Line Instrumentation
- Refrigeration
- Well Head Pressure Sensing
- Energy & Water Management
- Pressure Instrumentation
- Oil Platforms
- Power Generation

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MODEL OAP4600

CSA Approved for Hazardous Locations
Explosionproof OEM
Pressure Transducer



detailed specifications

Performance @ 25°C (77°F)

Accuracy ¹	< ± 0.25% BFSL
Stability (1 year)	±0.25%FS, typ
Proof Pressure	2X Rated Pressure
Burst Pressure	5X or 25,000 PSI whichever is less.
Pressure Cycles	>100 Million
Agency Approval	CSA 30 (UL 1203) Class 1, Div. 1, Explosionproof, Groups A, B, C, and D



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

Environmental Data

Temperature

Operating	-40 to 85°C (-40 to 185°F)
Storage	-55 to 125°C (-65 to 250°F)

Thermal Limits

Compensated Range	0 to 55°C (30 to 130°F)
TC Zero	<±1.5% of FS
TC Span	<±1.5% of FS

Other

Shock	100G, 11msec, 1/2 sine
Vibration	10G peak, 20 to 2400 Hz.
EMI/RFI Protection:	Yes
Rating:	IP-67

Electrical Data

Excitation	10-28VDC, Typ.	10-28VDC, Typ.
Output*	4-20mA	1-5V, 1-6V
Output Impedance	-	<100 Ohms, Nominal
Current Consumption:	25mA max	<10mA
Bandwidth	(-3dB): DC to 250 Hz	(-3dB): DC to 1 kHz
Zero Offset	<±1.0% of FS	<±1.0% of FS
Span Tolerance	<±2.0% of FS	<±1.5% of FS
Output Noise:	-	<2mV RMS
Output Load	See Load Line Curve Below	5k Ohms, min.
Reverse Polarity Protection	Yes	Yes

*Other outputs available. Please consult factory.

Physical Description

Pressure Fittings	1/4" MNPT, 1/4" FNPT, 1/2" MNPT (for other connections, consult factory)
Electrical Connection	2 or 4 ft., 18 AWG Wires with 1/2" Male NPT Conduit Only
Case (housing)	304 stainless steel

ORDERING INFORMATION

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

OAP4600-A-00500-P-3-T-0-000



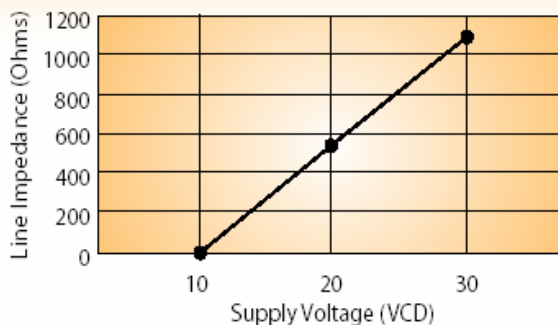
Pressure Ranges*

PSI, sealed	Proof PSI	Burst PSI	Pressure Range Code
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	25,000	10000

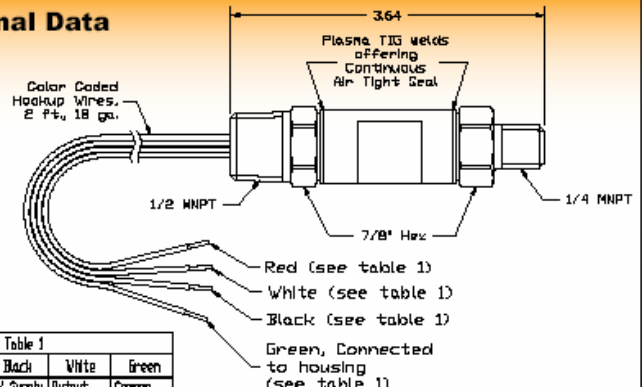
* Typical Ranges.

All ranges between 0-50 PSI and 0-10,000 PSI are available.

4-20mA LOAD LINE CURVE



Dimensional Data



Output	Red	Black	White	Green
1-5V	+V Supply	-V Supply	Output	Common
4-20mA	+V Supply	-V Supply	Hot Lead	Common