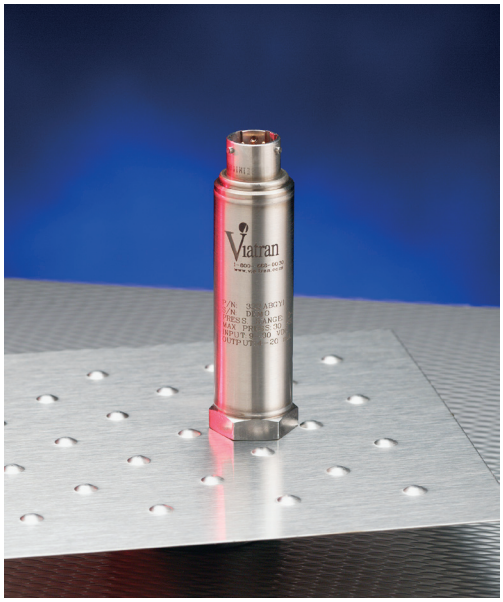
PRESSURE TRANSMITTER

Models 122 / 222 / 322



FEATURES

- Small size - 7/8” diameter
- ≤0.25% combined accuracy
- 4-20 mA, 0-5 Vdc, mV/V output
- All welded stainless construction
- 316L wetted parts

TYPICAL APPLICATIONS

- Aerospace
- Military
- Engine testing
- Brake testing
- Tank level

DESIGNED FOR TIGHT PLACES

It’s tiny but durable. The 316L stainless steel diaphragm and all welded stainless construction provides a corrosion resistant and shock tolerant instrument ideally suited for corrosive and severe industrial environments.

INSPIRED BY SMALL PLACES

The electronics on the X22 and silicon sensor design have a combined accuracy of better than 0.25% with an optional improved accuracy of less than 0.1% linearity. Available standard outputs are mV/V, 4-20 mA and 0-5 Vdc.

EASY ADAPTABLE

Viatran’s ability to customize products provides extreme flexibility, allowing the X22 to easily fit into your existing system. Options include alternate pressure ports, electrical connectors and various electrical outputs.

ENGINEERED TO ORDER

The X22 came into being because a customer needed a small-sized and rugged solution. If your application requires a specialized solution, give us a call. We’re large enough to solve your application, and small enough to care about it. Call for details and availability.

MECO MEASUREMENTS & CONTROLS
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Models 122 / 222 / 322

PERFORMANCE

Full Scale Pressure Range	0-3 thru 0-5000 PSIG, PSIS, 0-15 thru 0-5000 PSIA
	0-15 PSIV*
Linearity	≤±0.1% FSO typical (±0.25% FSO max)
Hysteresis & Repeatability	≤±0.05% FSO
Zero Balance	≤±1.0% FSO
Long-Term Stability	≤±0.1% FSO per 6 months
Response Time	≤5 mSec for 10% to 90% FSO
Temperature Effect on Zero	≤±1.0% FSO per 100°F (55°C)
Temperature Effect on Span	≤±1.0% FSO per 100°F (55°C)
Compensated Temperature	32°F to 180°F (0°C to 82°C)
Operating Temperature 122	-40°F to 250°F (-40°C to 121°C)
222 / 322	-40°F to 185°F (-40°C to 85°C)
Storage Temperature Limits	-40°F to 250°F (-40°C to 121°C)

ELECTRICAL

Supply Voltage 122	10 Vdc nominal, 15 Vdc max
222 / 322	9 to 30 Vdc
Power Supply Regulation	≤±0.05% FSO per volt
Output Signal 122	5 mV/V for 3 to 5 PSI; 10 mV/V all other ranges
222	0 to 5 Vdc
322	4 to 20 mA
Load Resistance 222	100K Ohms min
322	1050 Ohms max at 30 Vdc
Circuit Protection	Output may be short circuited indefinitely. Input polarity may be reversed. Over-voltage protected to 1000 volts <1 mSec duration
Insulation Resistance	<5nS conductance
Electrical Connections	6-pin hermetic, bayonet-syle, 303 SST weld-mounted connector

	122	222	322
Pin A	+Power	+Power	+Power/Signal
Pin B	-Power	-Power	-Power/Signal
Pin C	+Signal	+Signal	No connection
Pin D	-Signal	-Signal	No connection
Pin E	Case ground	Case ground	Case ground
Pin F	No cnnection	No connection	No connection

MECHANICAL

Proof Pressure	3 times range (10,000 PSI max)
Burst Pressure	5 times range (10,000 PSI max)
Diameter	0.875 inches
Weight	5 oz

ACCESSORIES

Panel mount digital display

* For PSIV and Compound Range units

Thermal effect on zero	≤±3.0% per 100°F
Compensated temperature	32°F to 170°F (0°C to 76°C)

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Viatran A Dynisco Company

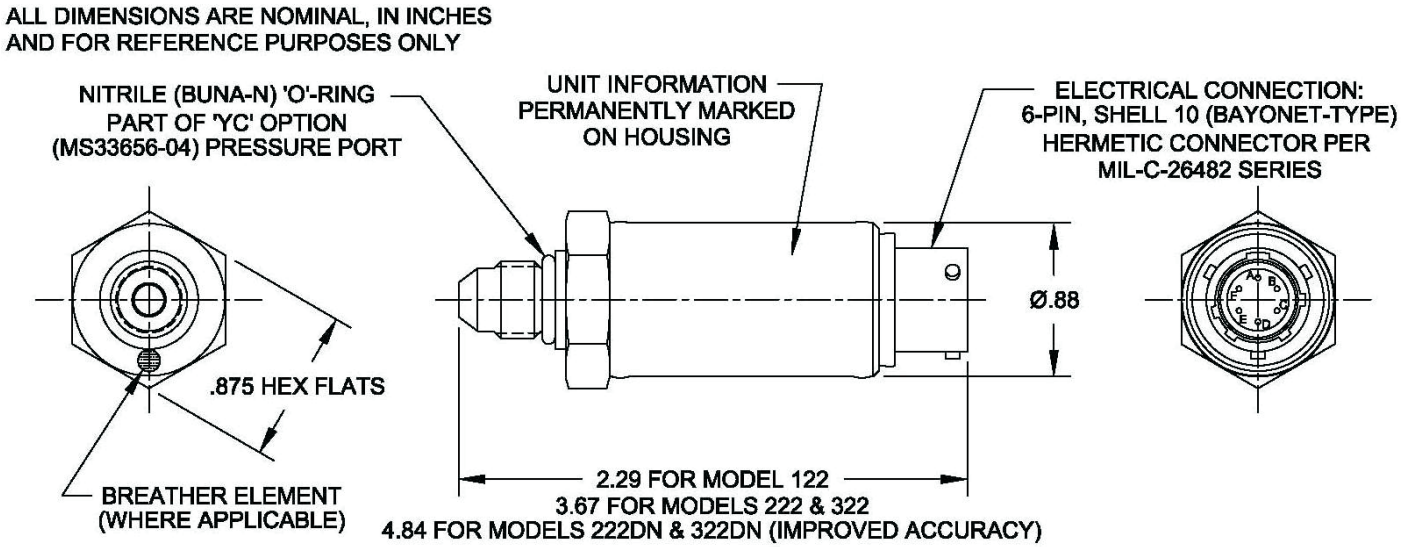
MATERIALS OF CONSTRUCTION

	Housing Materials	316 stainless steel
	Pressure Connection	316 stainless steel
	Sensor	316 stainless steel
	Mounting	May be supported by process piping
	Identification	Laser etched onto body

OPTIONS

	BP	Micro change M12 connector
	DH	Special pressure range
	DM	Modified output
	DN	Improved accuracy (increase in length)
	EA	Special calibration run
	NH	Customer specified identification
	ZU	Direct coupled cable
Pressure Ports	YC	MS-33656-04 Male thread (7/16-20 UNF)
	YH	1/8" NPT (M)
	YI	1/8" NPT (F)

Note: Application of some available options may affect standard performance. Consult your Viatran Representative for details.



Information is accurate to the best of Viatran's knowledge. We reserve the right to change specifications at any time. Please contact Viatran for specific order inquiries.

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