

# Pressure Transmitter

## MODEL X22



Viatran Model X22 is designed for applications where space is limited. With a maximum diameter of 7/8", the X22 is designed to fit in the smallest of places with easy installation.

### FEATURES

- Small size - 7/8" diameter
- $\leq 0.25\%$  combined accuracy
- (0.1% optional)
- 4-20 mA, 0-5 VDC, mV/V output
- All welded stainless construction
- 316L wetted parts

### APPLICATIONS

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

## A LOW COST, ACCURATE, COMPACT TRANSDUCER

### 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, hysteresis and repeatability combined. Available standard outputs are mV/V, 4-20 mA and 0-5 VDC.

### EASILY 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.



For product availability, or to order please call 716-773-1700 or 1-800-688-0030, ext 512.

### SPECIFICATIONS

#### PERFORMANCE

Full Scale Pressure Range (FSPR)	0-3 through 0-5000 PSIG, PSIS, 0-15 PSIV 0-15 through 0-5,000 PSIA
Linearity	≤±0.1% FSO typical (±0.25% FSO max)
Hysteresis & Repeatability	≤±0.05% FSO
Zero Balance	≤±0.25% FSO
Long Term Stability	≤±0.25% FSO per six months
Response Time	≤5 mSec for 10% to 90% of FSO
Temperature Effect on Zero	≤±1.0% FSO per 100°F
Temperature Effect on Span	≤±1.0% FSO per 100°F
Compensated Temperature Limits	32°F to 180°F
Operating Temperature Limits	-40°F to +250°F for Model 122 -40°F to +180°F for Model 222/322
Storage Temperature Limits	-40°F to +250°F

#### PERFORMANCE

Supply Voltage	9 to 30 VDC 15 VDC maximum for Model 122
Power Supply Regulation Effect	≤±0.0001% 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	>1000 Ohms nominal
322	1050 Ohms 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	≥1000 MegOhms at 50VDC
Electrical Connections	6-pin hermetic, bayonet-style, 303 SST weld-mount connector

#### 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.

#### Materials of Construction

Housing Material	.316 SS
Pressure Connection	.316 SS
Sensor	.316 SS
Mounting	May be supported by process piping
Identification	Laser etched onto body

#### OPTIONS

##### Codes

BP	.Micro change M12 connector
DH	.Special range
DM	.Modified Output
DN	.Improved accuracy (increase in length)
EA	.Special calibration run
NH	.Customer specified identification
ZU	.Direct coupled cable

##### Codes

	<i>Pressure Ports (must select)</i>
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.

#### ACCESSORIES

Panel mount digital display

	Model 122	Model 222	Model 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 Connection	No Connection	No Connection

### THE PRESSURE MEASUREMENT FAMILY.



CALL VIATRAN FOR DETAILS ABOUT THE ENTIRE FAMILY

