# **PressureTransducer**



### RUGGED, ACCURATE, INEXPENSIVE, FIELD PROVEN

### DESIGNED FOR HARSH CONDITIONS

All welded stainless steel construction combined with sensors that are hermetically sealed with no adjustment controls, provide an airtight and watertight\* transducer preventing contamination from the application environment.

### SPIKE RESISTANT

The "48" Series is made to withstand overloads and severe pressure spikes that can offset, weaken or destroy other sensors. The minimum 3x overpressure rating on the X48 means better than 0.15% accuracy while still offering a response time of less than a millisecond. It's designed to provide years of reliable, repeatable service.

### FLEXIBLE TO YOUR NEEDS

Standard pressure ranges are from 3 to 15K PSI, with output of mV/V, 0-5 VDC and 4-20 mA. Additional outputs are also available. Viatran's available standard options and ability to modify products provides flexibility to meet your specific application needs.

Standard options include alternate pressure ports, electrical connectors, multiple pressure formats and various electrical outputs. Viatran's rugged reputation is also standard.

For product availability, or to order, call a member of the Control Service Team at 1-800-688-0030, ext 512.

## MODEL x48

Our customers requested transducers that would stand up to harsh conditions in applications involving environmental contamination, pressure spikes, shock and vibration. Models 148, 248 and 348 are the solution. Take a look at the Features.

### **FEATURES**

- Resistant to pressure spikes
- High accuracy (<0.15%)
- Response time less than 1 millisecond
- Welded stainless steel construction
- All welded NEMA 4X design
- 3X overpressure rating
- mV/V, 0-5 VDC, 4 to 20 mA outputs
- CE approved

### TYPICAL APPLICATIONS

- Die casting
- Stamping presses
- Rolling mills
- Injection molding
- Compressors and pumps
- Off road vehicles
- Hydraulic usage
- Test stands



### **SPECIFICATIONS**

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Full Scale Pressure Range ......... 0-15 PSIV

0-15 thru 0-200 PSIA

0-3 thru 0-15.000 PSIG. PSIS

Accuracy (combined linearity,

hysteresis and repeatability)

0-200 PSI . . . . . . . . . . . . . . . . . . ≤0.25% 300-15K PSI . . . . . . . . . . . . ≤0.15%

Full Scale Output (FSO)

Model 148 ..... mV/V output, dependent

Model 248 . . . . . . . . . . . . . 5 VDC 

Long Term Stability . . . . . . . . . ≤0.5% FSO per 6 months

Operating Temperature Range .....-40° F to +185° F Storage Temperature Range . . . . . . . . -65° F to +250° F

Temperature Effect on Zero . . . . . . . ≤±1.0% FSO per 100° F nominal Temperature Effect on Span ......≤±1.0% FSO per 100° F nominal

FSO Balance ......≤±1.0% FSO

### **ELECTRICAL**

Supply Voltage

......10V Nominal, 15V maximum

.....9 to 30 VDC ..... 9 to 30 VDC

Power Supply Regulation . . . . . . . .  $\leq$  ± 0.01% FSO per volt over the supply voltage

range (248/348 only)

Output Signal

..... 0 to 5 VDC 248 .....4 to 20 mA

Circuit Protection ...... Reverse polarity protected Insulation Resistance ......>200 MegOhms to case ground Response Time .....≤1 mSec for 10% to 90% of FSO Electrical Connections ............ 6-pin hermetic, bayonet-style, 303 SST

weldmount connector

**MECHANICAL** 

Proof Pressure ...... 3 times FSPR or 20K PSI, whichever is less Burst Pressure ...... 5 times FSPR or 45K PSI, whichever is less

Mounting ...... May be supported by process piping

	Model 148	Model 248	Model 348
Pin A	+Power	+Power / +Signal	+Power / +Signal
Pin B	-Signal	-Power / -Signal	-Power / -Signal
Pin C	+Signal	+Signal	No connection
Pin D	-Signal	-Signal	No connection
Pin E	No connection	No connection	No connection
Pin F	No connection	No connection	No connection

### THE INDUSTRIAL TEST AND CONTROL FAMILY.



CALL 1-800-688-0030 OR 716-773-1700, EXT 512 FOR DETAILS ABOUT THE ENTIRE FAMILY

### MATERIALS OF CONSTRUCTION

Wetted Parts

Identification . . . . . . . . . Laser etched onto body

#### **OPTIONS**

#### **Electrical Connection**

ВН	 C21-10-6PN-20-0P1 (Weld w/RFI)
BI	 CF3102E-14S-2P
ΒZ	 Micro change
ZU	 Direct coupled cable
7Y	1/2" (M) NPT conduit connection

Alternate Pressure Ports

WG		
YC	MS33656-04 (M)	
YD	MS33656-06 (M)	
YG	MS16142-04 (F)	
ΥK		
YU	MS16142-06 (F)	

Performance Options

. . . . . . . . . . . . . . . Internal calibration ...... Improved temperature compensation

DH ..... Special ranging DM ..... Modified full scale output DQ ...... Cleaning for Oxygen service ..... Special calibration run

. . . . . . . . . . . . . . . . . Customer specified ID NJ ..... CE approved

TH ..... Zero and Span Adjustment

### OTHER OPTIONS AVAILABLE ON REQUEST.

**ACCESSORIES Digital Indicators** 

Mounting bracket

Mating electrical connector/assembly

Protective cover

Note: Vented gage units should only be installed in environments that allow the breather to remain dry and free from contamination. Application of some available options may affect standard performance. Consult your Vial





