Pressure Transmitter





Viatran's Model 544 is a gage pressure transmitter designed for precise measurement in harsh environments. Its all welded 316 stainless steel construction ensures durability and corrosion resistance, and it offers overpressure protection to 500 PSI.

The 544 features a special internal calibration signal that allows users to calibrate the transmitter without an external pressure source. The 544 provides a 4 to 20 mA output signal measuring pressures from 0 to 5" WC thru 0-100 PSIG.

External zero, span, and calibration controls are hermetically sealed for protection against harsh environments. These controls are externally adjustable with Viatran's unique magnetically coupled drive system. Model 544 also has a signal conditioner that allows for 5:1 ranging of the transmitter's standard pressure range (FSPR).

Designed to meet FM explosion proof and intrinsically safe standards, the 544 provides reliable and safe pressure measurement in harsh process applications.

Viatran offers a full line of pressure transmitters for the process control industry. Model 570/770/870 is our basic, low cost pressure transmitter, while Model 584 has similar features and includes external zero and span controls. Model 571 measures pressure in ranges from 0-100 thru 0-100,000 PSI with the same advanced features as the 544. Viatran's Model 573 is a flange-mounted electronic transmitter for tank liquid level measurement, and the 574 is our differential pressure unit. Viatran's Model 544 is a gage pressure transmitter designed for precise measurement in harsh environments. Its all welded 316 stainless steel construction ensures durability and corrosion resistance, and it offers overpressure protection to 500 PSI.

FEATURES

- · Magnetically coupled external controls
- 500 PSI overpressure
- · Internal calibration signal
- 5:1 ranging
- Rugged design

TYPICAL APPLICATIONS

- Leak testing
 - valves
 - refrigeration systems
- · Level measurement
- Chemical processing

Contact Viatran for approval options





SPECIFICATIONS

Performance

Full Scale Pressure Range (FSPR)	0-5", 10", 20", 50", 10 WCG; 0-15, 50, 100 I	- , ,	
Non-Linearity (Best Fit Straight Line)	±0.15% FSO		
Hysteresis & Repeatability	±0.1% FSO		
Full Scale Output (FSO)	16 mA at 70° F		
Resolution	Infinite		
Long Term Stability	±0.2% FSO per 6 mor	ths	
Temperature Effect on Zero	±1.0% FSO per 100° I	=	
Temperature Effect on Span	±1.0% FSO per 100° I	-	
Compensated Temperature Limits	+70° F to +170° F		
Operating Temperature Range	5"WC to 50"WC	100"WC to 100 PSI	
	0° F to +170° F	-40° F to +170° F	
Storage Temperature Limits	5"WC to 50"WC	100"WC to 100 PSI	

0° E to +170° E

10-40 VDC

Electrical

Supply Voltage Power Supply Regulation **Output Signal** Load Impedance Zero Adjustment Elevation Suppression Span Adjustment

Calibration Signal Calibration Signal Accuracy

Circuit Protection

Insulation Resistance **RFI/EMI Suppression**

Electrical Connections Red Black Green

±0.02% FSO per volt 4-20 mA at 70° F 1500 Ohms maximum at 40 VDC -100% of FSO

-40° F to +170° F

+50% of FSO
Rangeable down 5:1 from standard range 20% of FSPR, externally switched
The exact signal to pressure correlation is provided with each unit. Varistor protected across the input leads for surges above 40V and currents to 250 Amps peak with a pulse width of $8x20 \ \mu$ Sec. Reverse polarity protected. $< 5 \ nS$
<1.0% FSO from 0 to 15 MHz at 2V

peak to peak direct contact 1/2" NPT Male, 3 Wires, 18 AWG, 36" + Power / Signal - Power / Signal Case Ground

Mechanical

Pressure Connections Proof Pressure **Burst Pressure** Materials of Construction Wetted Parts Housing Shock Limitation Weight Fill Fluid Enclosure Classification Identification Certifications Intrinsically Safe

Explosion Proof

Options

Description
MS33649-04
1/8" NPT (M)
1/8" NPT (F)
1/4" NPT (M)
3/8" NPT (F)

1/4" NPT(F)

316 stainless steel

316 stainless steel

Laser etched onto body

Div. 1, Groups A thru G, indoor and outdoor

hazardous locations

FM approved for use in Class I, II, & III,

FM approved as suitable for use in Class I, II, & III, Div. 1, Groups A thru G,

500 PSI

1000 PSI

5 Gs 3.5 lbs. nominal

Silicone oil

NEMA 4X

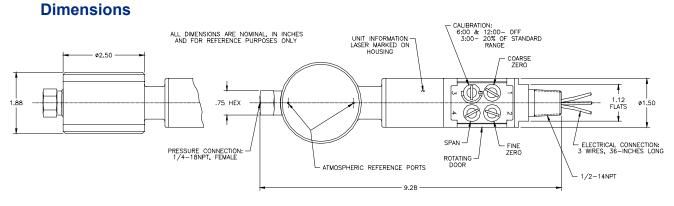
DK	Calibration at specified range
DQ	Cleaning for oxygen source
EA	Special calibration run
GE	Buna-N "O"-Ring
JJ	Direct mount indicator w/ explosion proof housing
JS	Direct mount indicator
MD	FM label
NH	Customer specified indentificatiom
NF	fast response time

PW 1/8 DIN digital indicator

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

Accessories

Mounting bracket Conduit connection box Digital indicator



RΔN

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.