PressureTransmitter

MODEL584



Viatran's small and rugged Model 584 pressure transmitter is built to provide accurate and stable measurement in medium to high pressures.

FEATURES

- Hermetically sealed external controls
 Watertight/submersible
- •All stainless steel enclosure
- •FM, CSA, ATEX ,CE approvals available contact Viatran for details
- •4-20 mA

TYPICAL APPLICATIONS

- Offshore oil rigs
- Shipboard/Marine
- Pulp and paper
- Chemical processing
- Water treatment
- Oil pumping

GAGE. ABSOLUTE. ACCURATE.

COMPACT AND COMPLETELY SEALED

The 584 is designed as an extremely rugged yet inexpensive pressure transmitter with sealed external zero and span adjustments.

APPROVAL OPTIONS

Model 584 qualifies for FM, CSA, CE, and ATEX ratings. The stainless steel construction makes the 584 extremely resistant to damaging pressure spikes and shocks. The 584 is even more durable thanks to hermetically sealed electronics and high corrosion resistance. The 584 provides a 4 to 20 mA output signal, available ranges between 100 and 15K PISIS, and accuracy to ≤ ±.20%.

The signal conditioner allows for 3:1 ranging of the standard pressure ranges.

JUST ONE PART OF A COMPLETE LINE OF SOLUTIONS FROM VIATRAN

The 584 represents one transmitter in a family of sensors designed for the process control industry. The model 544 has a similar rugged design for low-pressure measurement. Our X70 models are a mid-to-high cost transmitter without external adjustments. Fully adjustable, the model 571 includes 5:1 ranging and a built-in calibration signal. For differential pressure measurment, try the model IDP10.



For product availability, or to order please call 1-800-688-0030

SPECIFICATIONS

٦F					

Full Scale Pressure Range (FSPR) 0-100 thru 0-15K PSIG, PSIS

Non-linearity (Best fit straight line) ≤ 0.20% FSO Hysteresis & Repeatability ≤ ±0.05% FSO Full Scale Output (FSO) 16 mA at 70°F Resolution Infinite

Long Term Stability ≤±0.25% FSO per 6 months Thermal Zero shift ≤±1.0% FSO per 100°F Compensated Temperature limits 0°F to +180°F Operating temperature range -40°F to +185°F Non-operating temperature range -65°F to 250°F

Supply Voltage 12 to 30 VDC Power Supply Regulation ≤±0.02% FSO per volt Output Signal 4-20 mA at 70°F

Zero Adjustment ≤ ± 20% FSO per volt

Span Adjustment Rangeable down 3:1 from standard range

Circuit Protection Varistor protected across the input leads for surges above 40V and currents to 250A peak with a pulse

width of 8x20 µSec. Reverse polarity protected.

Bridge Resistance 5K Ohms nominal Insulation Resistance ≥200 MegOhms to case ground

RFI/EMI Suppression Negligible to 500 MHz at 5 Watts direct contact

Red+Signal Black-Signal Green Case Ground

MECHANICAL

Pressure connection 1/4" NPT female

Proof pressure 1.5 times FSPR or 20K PSI, whichever is less

0-100 thru 0-3K PSI ≥5 times FSPR Up to 5K PSI≥4 times FSPR

7.5K thru 10K PSI >2.7 times FSPR Up to 15K PSI≥2.3 times FSPR Shock Limitation 100 G's

Material of Construction

Wetted parts 15-5 PH stainless steel

Enclosure Classification NEMA/Type 4x Identification Laser etched on body CERTIFICATIONS Consult factory for available Options

FM Intrinsic Safety: Class I, II, III, Division 1, Groups A-G, and AEx ia IIC, T4 at Ta=80°C, T5 at Ta=40°C, Indoor and

Outdoor NEMA/Type 4X Hazardous Locations

Explosion Proof: for use in Class I, Division 1, Groups A-D, Class II, Groups E,F,G, Class III, AEx d IIC, T5 at Ta=88°C,

NEMA/Type 4X, Hazardous Locations

Nonincendive: Class I,II,III Div. 2, Groups A-G and Class I,

Zone 2, Group IIC, T4 at Ta=80°C, T5 at Ta=40°C

Intrinsic Safety: Class I, Div. 1, A-D Class II, E-G, Class III,

Ex ia IIC T4 at Ta=80°C, T5 at Ta=40°C

Explosion Proof: Class I, A-D, Class II, E-G Class III

Hazardous Locations

ATEX Flameproof: (Ex) II 2 G

EEx d IIC, T5 (-20°C ≤ Ta ≤ 80°C) EMC Directive 89/336/EEC and CE Low Voltage Directive 72/23/EEC

EN 61010-101993/A2:1995: Low Voltage Standard

EN 61326: EMC Conformity Standard

PED Directive 97/23/EC

OPTIONS (Codes)

Mini change electrical connector Micro change electrical connector Bleed port (10K PSI and below) Improved temperature and compensation

..... Cleaning for oxygen service Special calibration run

..... CSA Explosion Proof label

..... ATEX Flameproof label (consult factory)

..... Customer specified identification

NJ CE label

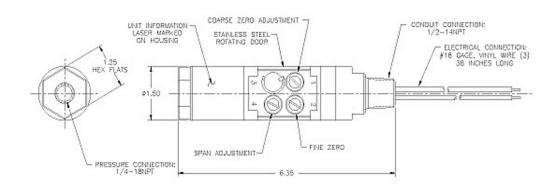
NSR Non standard range NX CSA Intrinsic Safety label FM Explosion Proof label FM Nonincendive label FM Intrinsic Safety label

Q() Hastelloy, Inconel or 316 SST wetted parts

W () Alternate pressure ports Y () Alternate pressure ports Z () Alternate electrical connection Direct coupled cable

ACCESSORIES Mounting Bracket

Conduit Connection Box Loop Powered Digital Indicator



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

