



MODEL 584 PRESSURE TRANSMITTER

LEGACY PRODUCT

The 584 pressure sensor was designed as an extremely rugged yet inexpensive pressure transmitter with sealed external zero and span adjustments. No longer available, please refer to Viatran's Model 571 product page , for the recommended replacement.

PERFORMANCE

Full Scale Pressure Range (FSPR)	0-100 thru 0-15K PSIG, PSIS
Combined Accuracy (Non-Linearity, Hysteresis, Repeatability)	$\leq \pm 0.15\%$ FSO
Full Scale Output (FSO)	16 mA at 70°F
Resolution	Infinite
Long Term Stability	$< \pm 0.25\%$ FSO per 6 months
Thermal Zero shift	$< \pm 1.0\%$ FSO per 100°F
Thermal Span shift	$< \pm 1.0\%$ FSO per 100°F
Compensated Temperature limits	0°F to +180°F
Operating temperature range	-40°F to +185°F
Operating temperature range	-40°F to +185°F
Non-operating temperature range	-65°F to 250°F

ELECTRICAL

Supply Voltage	12 to 30 VDC
Power Supply Regulation	$< \pm 0.02\%$ FSO per volt
Output Signal	4-20 mA at 70°F
Load Impedance	1500 Ohms maximum at 40 VDC
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 μ Sec. Reverse polarity protected.
Bridge Resistance	Bridge Resistance
Insulation Resistance	> 200 MegOhms to case ground
RFI/EMI Suppression	Negligible to 500 MHz at 5 Watts direct contact
Electrical Connection	1/2" NPT Male, 18 AWG, 72"
Wiring Color Code	
Red	+Signal
Black	-Signal
Green	Case Ground

Model 584 Pressure Transmitter

MECHANICAL

Pressure connection	1/4" NPT female
Proof pressure	1.5 times FSPR or 20K PSI, whichever is less
Burst pressure	
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
Weight	24oz.

MATERIAL OF CONSTRUCTION

Wetted parts	15-5 PH stainless steel
Housing	316 and 15-5 PH stainless steel
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Enclosure Classification	NEMA/Type 4x
Identification	Laser etched on body

OPTIONS

BB	Mini change electrical connector
BP	Micro change electrical connector
DF	Bleed port (10K PSI and below)
DG	Improved temperature and compensation
DQ	Cleaning for oxygen service
EA	Special calibration run
ME	CSA Explosion Proof label
NG	ATEX Flameproof label (consult factory)
NH	Customer specified identification
NJ	CE label
NSR	Non standard range
NX	CSA Intrinsic Safety label
NY	FM Explosion Proof label
NZ	FM Nonincendive label
TF	FM Intrinsic Safety label
Q ()	Hastelloy, Inconel or 316 SST wetted parts
Hastelloy, Inconel or 316 SST wetted parts	Alternate pressure ports
Y ()	Alternate pressure ports
Z ()	Alternate electrical connection
ZU	Direct coupled cable

Model 584 Pressure Transmitter



- FM Explosion Proof
- FM Intrinsic Safety
- FM Non Incendive



- CSA Intrinsic Safety



- CE-PED Declaration of Conformity
- Model 584 EMC Declaration of Conformity



- Flame Proof