

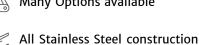


MODEL 570 FLUSH TIP PRESSURE TRANSMITTER

4-20 MA, FLUSH TIP, HAZARDOUS APPROVAL OPTIONS

Model 570 with the Flush Tip (FT) option provides a rugged, sealed solution for hazardous rated and harsh environments.





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IP-67 Rated

High Overpressure Applications

The Model 570 Flush Tip Pressure Transmitter is designed to meet the rigorous demands placed on pressure transmitters used for well-servicing applications including manifold charge and high-pressure pump suction pressure measurements.

Features of the Model 570 Flush Tip pressure transmitter include:

- Flush Tip (Zero Cavity Design)
- Patented* Solid Stainless-Steel Diaphragm Technology
- \circ ~ Isolated Sensor Design virtually eliminates torque effect
- Withstands 5 times Proof Pressure at 0-1,000 psis range
- Withstands 20 times Burst Pressure at 0-1,000 psis range
- High Accuracy (\leq +/-0.50% FSO)
- IP67 rating (Fully welded and sealed housing)
- Hazardous Approval Options Available

Minimizing the torque effect on the diaphragm has eliminated the need to adjust the instrument after installation. The ability to withstand pressure spikes up to 5 times the full scale pressure range without any degradation in performance, extends the life of the transmitter when cavitation is a risk in the system. The patented pressure sensor diaphragm technology has resulted in a very stable unit with the high performance and data integrity needed for blending in acidizing, cementing and fracturing applications.

*US Patent 9,851,272 B2

PRESSURE RANGES:

PSIS AM 0-100 psis AN 0-150 psis CA 0-160 psis AP 0-200 psis AQ 0-250 psis AR 0-300 psis AT 0-400 psis AU 0-500 psis AY 0-1,000 psis

BAR
FH

FH	0-6 bar		
FI	0-10 bar		
FJ	0-13 bar		
FK	0-16 bar		
FL	0-25 bar		
FM	0-35 bar		
FP	0-60 bar		

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PERFORMANCE

Static Error Band	≤±0.50% FSO (Includes BFSL, Hysteresis, and Repeatability by RSS
Full Scale Output (FSO)	16 mA (4-20mA)
Zero and Span Adjustment	No
Zero and Span Balance	±1% FSO
Zero Effect from Installation	≤±0.10% FSO at 25 lbs ft to 50 lbs ft
Long Term Stability	≤±0.5% FSO per 6 months
Response Time	<2 mSec to reach 90% FSO
Compensated Temperature Range	+70°F to +170°F (21°C to 76°C)
Temperature Effect on Zero	≤±2.0% FSO per 100°F (Typ.)
Temperature Effect on Span	≤±2.0% FSO per 100°F (Typ.)
Temperature Effect on Zero & Span combined for Range	None
Span Adjustment	None
Operating Temperature	-40°F to 185°F (-40°C to 85°C)
Maximum Media Temperature	-40°F to 185°F (-40°C to 85°C)
Storage Temperature Limit	-65°F to 250°F (-53°C to 121°C)

Supply Voltage 12 to 30 Vdc Power Supply Regulation Effect ≤±0.02% FSO per Volt Output Signal 4 - 20 mA Bridge Impedance 5000 Ohms nominal Circuit Protection Varistor protected across the input leads for surges above 40 Vdc and currents to 250 Amps peak with a pulse width of 20 µSecs. Reverse polarity protected.

Insulation Resistance	< 5 ns to case ground	
Electrical Connection	1/2" NPT (M), 18 AWG wire, 72"	
Wire Color Codes (Standard)		
Red	+Power/Signal	
Black	-Power/Signal	
Green	Case ground	
White	No Connection	

MECHANICAL

Pressure Connection	1/2''-14 NPT Male
Proof Pressure	5X Full Scale Pressure Range
Burst Pressure	20X Full Scale Pressure Range
Mounting	May be supported by process piping , electrical conduit or optional mounting bracket to 2" pipe.

MATERIALS OF CONSTRUCTION

Enclosure	304 Stainless Steel
Wetted Parts	15–5 PH Stainless Steel & 304 Stainless Steel
Shock Resistance	100 G's for 11 mSec
Weight	19 oz. Nominal
Identification	Laser etched onto body
Enclosure Ratings	Classification NEMA 4X, IP67

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OPTIONS

ВН	6-pin hermetic, bayonet-style 303 SST weld mount connector	
DG	Improved Temperature Compensation ≤±1.0% FSO per 100°F (Typ.)	
EA	Special calibration run	
	Viton O-ring	
GA	(for VQ, VR and VS Pressure Ports only)	
GD	EDPM (Ethylene Propylene Diene Monomer rub	ber) O-ring (for VQ Pressure Port only)
NH	Customer Specified Marking	,
QK	Inconel (718) wetted parts Not available for AM (100 psis) range	
VQ	3⁄4"-16 UNF (Male) per J1926-2	
VR	G ½ (M) per DIN 3852-11, Type E	
VS	G ½ (M) per DIN 3852-11, w/ two "O" rings	

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

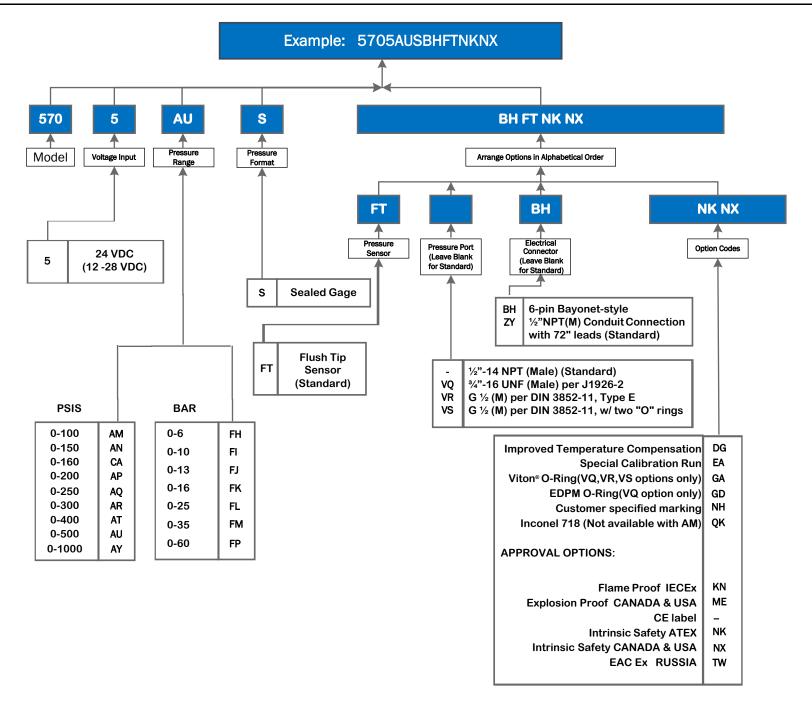
APPROVALS

	CE	CE Declaration of Comformity				
KN	IEC Ex	Flameproof IECEx : Ex db IIc Gb T5, T5: -20°C ≤ Ta ≤ +85°C				
ME		Explosion Proof CANADA & USA Class I, II, III, Groups A-G Hazardous Locations				
NK	(Ex)	Intrinsic Safety ATEX II 1G, Ex ia IIC, -20°C, Ta <40°C				
NX	C Us	Intrinsic Safety CANADA & USA Ex ia IIC; Class I, Zone 0; Class I, II, III, Groups A-G; NEMA Type 4, T4 at Ta=80°C, T5 at Ta=40°C				
TW	EHC Ex	Intrinsic Safety, Flameproof, Non-Sparking RUSSIA0Ex ia IIC Ga XT4: $-20^{\circ}C \le Ta \le +80^{\circ}C$ T5: $-20^{\circ}C \le Ta \le +40^{\circ}C$ 1Ex d IIC Gb XT6: $-20^{\circ}C \le Ta \le +40^{\circ}C$ 2Ex nA IIC GcT4: $-20^{\circ}C \le Ta \le +80^{\circ}C$ X				

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Part Number Schema



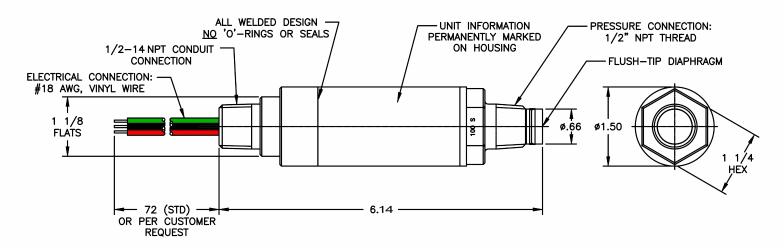


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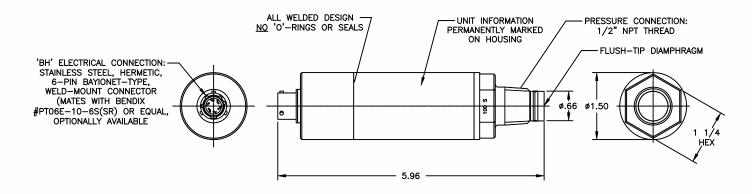
DIMENSIONAL DATA

"ZY" ELECTRICAL CONNECTION (Standard)*



*Above "ZY" Configuration is required for Explosion Proof and Flame Proof applications

"BH" ELECTRICAL CONNECTION OPTION



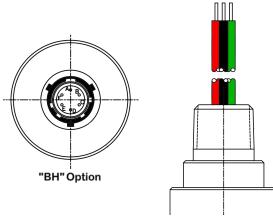
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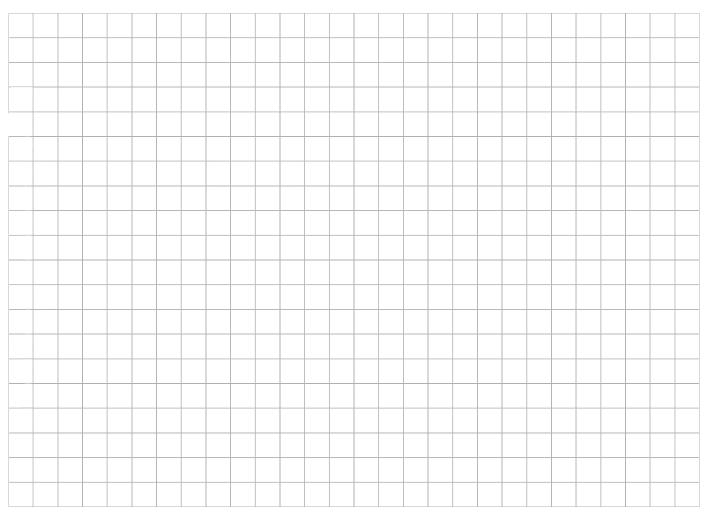
WIRING

	Pin Outs					
	1	2	3	4	5	6
	Α	В	С	D	E	F
BH	+Power	-Power	Case Ground	N/C	N/C	N/C
ZY	RED	BLACK	GREEN			



"ZY" (Standard)

INSTALLATION NOTES:



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