

Pressure transmitter Model 780



FEATURES

- 2000V surge protected
- NACE compatible
- TURCK ® connector, flying leads or jacketed cable are available
- <1.3 mA current consumption
- All welded construction
- Small size
 - Diameter 1.375"
 - Length 3.88"
- Watertight/submersible design (PSIS)
- 1-5 volt output
- Well suited for use with the Viatran Networking System (VNS)

LOW POWER CONSUMPTION

The Viatran Low Power Pressure Transmitter is the result of 40 years experience in the Oil and Gas arena. Rely on Viatran to provide expertise to assist you in recovering oil and gas from remote areas where power is scarce. Built-in 2000 volt surge protection virtually eliminates potential loss of measurement in the event of an electrical storm.

WIRELESS OPTION

Do you need to know what is happening at the wellhead? Do trips to a large field with multiple wells eat up your employees' valuable time by visiting a well only to find out that it is producing? Has well productivity been lost because an out of service condition was not discovered?

You need to maximize the utilization and optimization of your wellheads. Pair the 780 and Viatran Networking System (VNS) with an RTU, PLC, or Flow Computer. VNS makes readings at the wellhead and along the pipeline available to site managers without taking a trip and without trench wiring. With constant knowledge of the status of the wellhead and pipeline, unproductive visits to wellheads and pipelines can be minimized yet you are aware immediately when a trip is required!

TYPICAL APPLICATIONS

- Wellhead Casing and Tubing Pressure
- Pipelines
- Gas Compressors
- Flow Lines
- Tank Level
- Separators

For more information, contact Viatran.







Viatran 38 Forge Parkway Franklin, MA 02038 Hotline: 1-800-688-0030
Phone: 1-716-629-3800
Fax: 1-716-693-9162
Email: solutions@viatran.com



PERFORMANCE		0-300, 500, 750, 1000, 1500 PSIG 2000, 3000, 5000, 7500, 10K PSIS, 15K PSIS
		2000, 0000, 7000, 7000, 10111 010, 10111 010
Lineari	y Best Fit Straight Line	≤±0.25% FS0: ±0.1% FS0 option
	Hysteresis & Repeatability	
		1 to 5 Vdc with optional 0.5 to 4.5 Vdc
	Zero and Span Balance	±0.5% FS0
	Long Term Stability	≤±0.1% FSO per 6 months
	Response Time	≤5 mSec
	Compensated Temperature	
	Operating Temperature	
		67°F to 257°F (-55°C to 125°C)
	Temperature Effect on Zero	
	Temperature Effect on Span	≤±1.0% FSO per 100°F (55°C)
ELECTRICAL	Supply Voltage	
	Power Consumption	
	Load Impedance	
	Circuit Protection	
	Insulation Resistance	
		Withstand 2000 V spike per EN61000-4-5
	RFI/EMI	CE marked, EN61326-2-3
MECHANICAL Burst Pressure	Pressure Connection	
		1.5 times rated range or 20K PSI (1379 bar) whichever is less
		5 times FSPR or 15K (1034 bar) whichever is less
	7.5K to 15K PSI (517 to 1034 bar)	
	Diameter	, ,
	Weight	24 oz (680 g)
MATERIALS OF CONSTRUCTION	Enclosure Housing	
		316L stainless steel below 7500 PSI (517 bar)
		Inconel 718 for 7500 PSI (517 bar) and above
		718 Inconel, meets NACE MR 1075 standards
		May be supported by pressure connection
	Identification	Laser etched onto body
OPTIONS Performance Options Options Alternate Pressure Ports		
	DN	
	DX	
	NH	Customer specified indentification
		1/2" NPT male, 18 AWG wire, 72"
	BX	
	CL	
		* *
	YK	* *
	WQ	
	YX	· ·
	WU	
	WT	
	YM	5 ,
	Other Pressure Ports Available	Consult factory



CERTIFICATIONS (Consult Factory for Available Options)

Intertek (ETL) Non-Incendive Class I, II, III Div. 2, Groups A, B, C, D, F, G

T4: -40°C to 85°C, T5: -40°C to 40°C

Dual Seal

USA & Canda Intrinsic Safety Class I, II, III Div. 1, Groups A – G

T4: -40°C to 85°C, T5: -40°C to 40°C

Dual Seal

Explosion Proof Class I, II, III Div. 1, Groups A – G

T4: -40°C to 85°C, T5: -40°C to 40°C

Dual Seal, 4X

ATEX Non-Incendive: II 3G Ex nA II , T4: -40 °C < Ta < 85 °C, T5: -40 °C < Ta < 40 °C

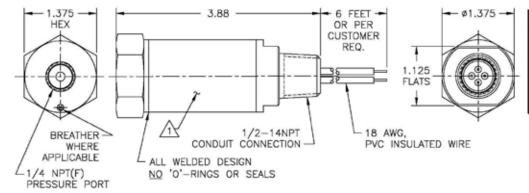
 $\frac{\text{Intrinsic Safety II 1G EEx ia IIC}}{\text{Flameproof II 1G EEx d IIC}}, 74: -40 \, ^{\circ}\text{C} < \text{Ta} < 85 \, ^{\circ}\text{C}, 75: -40 \, ^{\circ}\text{C} < \text{Ta} < 40 \, ^{\circ}\text{C}$

CE <u>EMC directive</u> 2004/108/EC

NOTE:

1 UNIT INFORMATION PERMANENTLY MARKED ON EXTERNAL HOUSING.

ALL DIMENSIONS ARE NOMINAL, IN INCHES AND FOR REFERENCE PURPOSES ONLY.



ELECTRICAL CONNECTIONS		
WIRE COLOR	FUNCTION	
RED	+POWER	
BLACK	-POWER/SIGNAL	
WHITE	+SIGNAL	
GREEN	AC CASE GROUND	