VIATRAN

HAMMER UNION PRESSURE TRANSMITTER

Model 510

(FOR USE WITH 1502 WING UNION FITTINGS)

FINITE ELEMENT ANALYSIS

Instability can also come from subtle

torque. These variances generate point

loading of stress on the sensor. Viatran's

product development engineers used Finite

effective distribution of the strain gages to

reduce the clamping effect. The resulting

orientation or tightness of the nut.

SEMI FLUSH

Element Analysis (FEA) to determine the most

eight gage sensor design is unaffected by the

Our exclusive semi flush design provides a

eliminates the need for tedious cleaning,

lower cavity volume to prevent clogging. This

variations in the Hammer Union and tightening



FEATURES

- USA, Canada and Europe Intrinsically Safe
- Hammer Union pressure fitting
- Shock and vibration resistant
- Eight gage sensor design
- Pressure up to 20,000 psi (1400 bar)

TYPICAL APPLICATIONS

- Oil Well Drilling and Servicing
 - Cementing
 - Fracturing
 - Acidizing

OIL EXTRACTION EXPERIENCE

Viatran's years of oil field experience helps us solve typical application problems. We are very familiar with the demanding performance, reliability and adaptability requirements for secondary recovery, drilling, offshore and land-based production. What's more, our professional sales and applications engineers are dedicated to making sure you get pressure sensing solutions that are a perfect fit for your requirements.

VIATRAN'S ALTERNATIVE

Viatran's unique fastening system locks under severe vibrations ensuring that the environmental integrity of the assembly is maintained much like a welded unit without welding.

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especially in cementing applications. Viatran is oil field proven. What often

begins as a nagging application turns into a successful solution. The 510 and the various other oil and gas solutions are shining examples of this success.

For more information, contact Viatran.



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pressure transmitter Model 510

PERFORMANCE			0-5K, 6K, 10K, 15K, 20K PSIS (0-350, 410, 700, 1000, 1400 bar)	
		Combined Accuracy (BFSL) (Non-Linearity, Hysteresis & Repeatability)≤± 0.25% FSO Full Scale Output (FSO)		
		Zero Balance		
			$\pm 0.25\%$ FSO per 6 months	
			≤ 2.5 mSec to reach 90% of FSO	
ELECTRICAL		Supply Voltage		
		Power Supply Regulation	≤±0.01% FSO per Volt	
		Output Signal		
		Loop/Load Impedance		
			Decreasing linearly to 0 Ohms at 9 Vdc	
		Range Calibration Signal	100% of FSPR	
		Calibration Signal Accuracy	≤±0.2% FSO. Exact signal to pressure correlation provided with eacl	
			unit	
		Circuit Protection		
			microseconds. Reverse polarity protected	
		Bridge Resistance	10K Ohms nominal	
		Insulation Resistance	≥100 MegOhms to case ground	
		Electrical Connection		
			pin connections	
MECHANICAL	Pressure Connection		Male hammer union 2 inch #1502	
		Pressure Cavity Volume		
			1.67 times FSPR or 22.5K PSI (1550 bar)	
		Shock Limitation		
		Weight		
		Enclosure Materials		
			Inconel 718, heat treated per NACE MR0175-2000	
		Identification		
		Enclosure Classification	NEMA 4X	
OPTIONS				
		DH		
		EA		
			Russian Metrology Certification	
			Europe Intrinsic Safety label	
			Canada Intrinsic Safety label	
		TF	-	
		TW	EAC Ex Certification Label	
		ZQ		

Standard Pin connections: Some models are provided with customer specified wiring. Consult Viatran for exact wiring connections.

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.



PRESSURE TRANSMITTER MODEL 510

CERTIFICATIONS (Consult Factory for Available Options: FM, CSA, ATEX, EMC, PED, RoHS)

 USA
 Intrinsically Safe Class I,, Div. 1, Groups A-D, Class I, Zone 0, AEx ia IIC T4 at Ta = 80°C, T5 at 40, Haz. Loc. Install per CD0666

 CANADA
 Intrinsically Safe Class I, Div. 1, Groups A-D, Class I, Zone 0, Ex ia IIC T4 at Ta = 80°C, T5 at Ta = 40°C. Haz. Loc. Install per CD0666

 EUROPE
 ATEX Directive 2014/34/EU

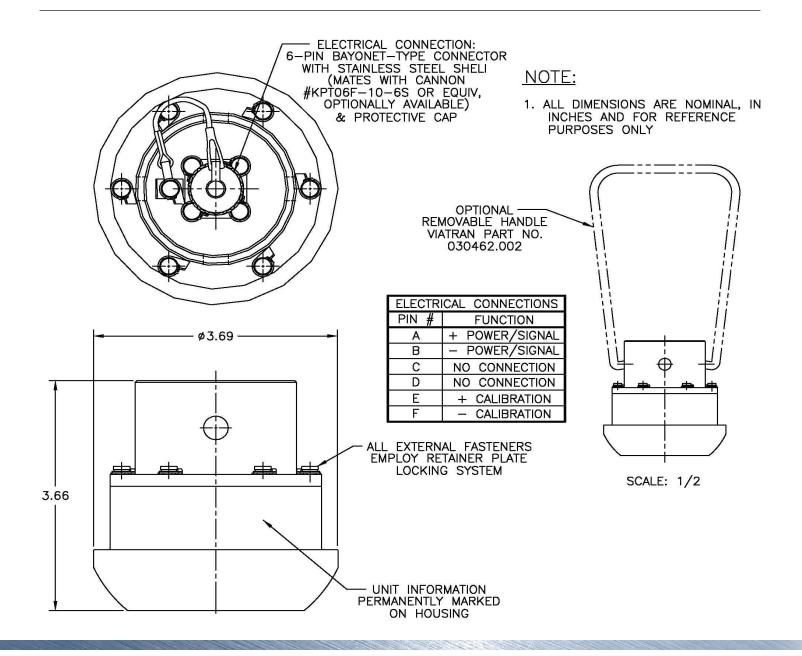
 Intrinsically Safe (a) II 1 G Ex ia IIC Ga, T4 -20°C ≤ Ta ≤80°C T5 -20°C ≤ Ta ≤40°C Haz. Loc. Install per CD0666

 EMC Directive 2014/30/EU EN 61326-1:2013

 PED Directive 2014/68/EU

 RoHS Directive 2011/65/EU

RUSSIA Intrinsic Safety: 0Ex ia IIC Ga, T4: -20°C ≤ Ta ≤ +80°C, T5: -20°C ≤ Ta ≤ +40°C Russian Metrology Certificate



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