Model 522

HAMMER UNION PRESSURE TRANSMITTER

(FOR USE WITH 2202 WING UNION FITTINGS)

Viatran Model 522 Hammer Union Pressure Transmitter measuring pump discharge pressure for drilling, fracturing, acidizing, cementing and nitrogen injection.

- Expanded compensated temperature range •
- Improved sealing method for connector pins •
- External adjust, identification and peak pressure capture •
- Impervious to fluid ingress (IP68*, NEMA 6P*) •
- NACE compliant for Sour Gas applications



PERFORMANCE	Full Scale Pressure Ranges0-5K, 0-6K, 0-10K, 0-15K PSIS Combined Accuracy (BFSL) (Non-Linearity, Hysteresis & Repeatability) $\leq \pm 0.25\%$ FS0		
	Full Scale Output (FS0)16.00 mA \pm 1% FS0 @70°FZero Balance4 mA \pm 1% FS0 @70°FCompensated Temperature Range+40°F to 140°F (4°C to 60°C)Operating Temperature Range-40°F to 185°F (-40°C to 85°C)Storage Temperature Range-67°Fto302°F (-55°C to 150°C)Long Term Stability (%FS0) $\leq \pm$ 0.25% FS0 per 6 monthsThermal Effect on Zero $\leq \pm$ 1% FS0 per 100°F Typical		
ELECTRICAL	Output Signal		

*Pending approvals

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	Insulation Resistance Response Time Range Calibration Signal Calibration Power Supply Voltage	<1 millisecond to reach 90% of FS0 100±10% FS0 by exciting pins E&F 8.5-28 VDC
	Bridge Resistance	Readings on calibration certificate are within ±0.2% FSO of actual Cal signal output 10K ohms, nominal Mates with 6 pin, Hermetic, Box Mount, Shell Size 10, MIL-C-26482 bendix
		type connector
MECHANICAL	Standard Pressure Port	Male hammer union 2 inch #2202
	Pressure Cavity Volume	Standard: 0.45 cubic inches
	Zero Effect from Installation	<
	Shock Sensitivity	
	Proof Pressure	1.67X range or 22,500 PSI max
	Burst Pressure	
MATERIALS OF CONSTRUCTION		NACE compliant Inconel 718 wetted material as standard (MR0175/IS0 15156-3:2009(E))
	Enclosure Material	
	Identification	
	Enclosure Rating	IP68*, NEMA 6P*
	Weight	4.0 lbs. nominal
OPTIONS	DC	Compensated temperature -40°F to 140°F
		Improved temperature compensation
	DH	
	DN	
	EA	
		Compensated temperature range 40°F to 180°F
	 LW	Narrow adapter for banding
	NA	
	NH NP	Customer specific identification
	NQ	• •
	Z()	-
APPROVALS	КК*	Prazil Inmatra Intrinsia Safaty
	KL*	
	NL	
	TJ	
	NK	
	ТК	
		IECEX International Intrinsic Safety Label
		IECEX International Mon-Incendive
	TW*	
		Russia GOST-R Intrinsic Safety Label
	XX*	
	TF	
	NZ	
		US & Canada Intrinsic Safety Labels
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Rugged Pressure & Level Measurement

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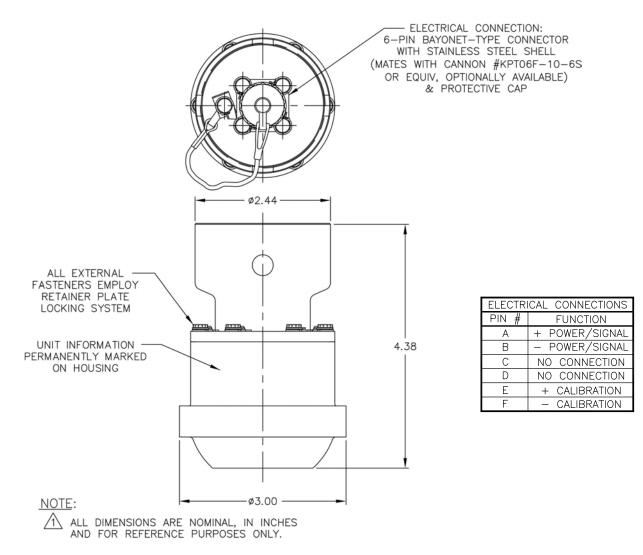
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CERTIFICATIONS (CONSULT FACTORY FOR AVAILABLE OPTIONS)

USA	Intrinsic Safety: Class I, Division 1, Groups A-D, Zone 0, AEx ia IIC, T4: Ta -40° to 85°C, T5: -40° to 40°C, NEMA Type 6P, IP68 Non-Incendive: Class I, Division 2, Groups A-D,Class 1 Zone 2, AEx nA IIC, T4 -40° to 85°C, T5: -40° to 40°C, NEMA Type 6P, IP68
CANADA	Intrinsic Safety:Class I, Division 1, Groups A-D, Class 1 Zone 0 Ex ia IIC, T4: -40° to 85°C, T5: -40° to 40°C, NEMA Type 6P, IP68 Non-Incendive: Class I, Division 2, Groups A-D, Class 1 Zone 2, Ex nA Group IIC, T4: -40° to 85°C, T5: -40° to 40°C, NEMA Type 6P, IP68
EUROPE	Intrinsic Safety: II 1G, Ex ia IIC, T4 Ga, Ta: -40° to 85°C, T5: -40° to 40°C, IP68
BRAZIL	Non-Incendive: I1 3 G, Ex nA IIC T4 Gc,Ta -40° to 85°C T5: -40° to 40°C, IP68 *Intrinsic Safety: II 1 G Ex ia IIC, T4 Ga, Ta -40° to 85°C T5: -40° to 40°C, IP68
DNALIL	*Non-Incendive: I1 3 G Ex nA IIC, T4 Gc, Ta -40° to 85°C T5: -40° to 40°C, IP68
IECEx	Intrinsic Safety: II 1G Ex ia IIC, T4 Ga, Ta -40° to 85°C T5: -40° to 40°C, IP68
	Non-Incendive: I1 3 G Ex nA IIC,T4 Gc, Ta -40° to 85°C T5: -40° to 40°C, IP68

EMC Directive 2004/108/EC EN 61326-1:2006



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Information is accurate to the best of Viatran's knowledge. We reserve the right to change specifications at any time. 98DS522 REV. C



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EXTERNAL CALIBRATION

- Trim zero and full scale with pressure source using DevCom 2000-LT desktop software •
- Record 4 pressure spikes up to 140% of rated pressure and cumulative time on •
- Digital output resolution +/- 0.06% •
- Factory reset option •
- Non interactive zero and span adjustment •

EXTERNAL CALIBRATION ACCESSORIES:

DevCom 2000-LT Desktop software

System Requirements (minimum)

Operating System Windows NT, 2000, XP, Vista (32/64), 7 (32/64), 8 (32/64) Processor Speed Pentium, 600 Mhz Memory 256 MB Hard Disk Space 500 MB Monitor 256-color VGA Communication Port USB, RS232, or Bluetooth

HART ® Modem (Various PC connections and cable lengths/connections available) 24VDC power source Power Xpress kit 250 ohm resistor

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