

Expanded compensated temperature range

Improved sealing method for connector pins

External adjust, identication and peak pressure capture

HAMMER UNION PRESSURE TRANSMITTER

Model 521

(FOR USE WITH 2002 WING UNION FITTINGS)

### Impervious to fluid ingress (IP68, NEMA 6P) • NACE Compliant for Sour Gas applications Full Scale Pressure Ranges......0-5K, 0-6K, 0-10K, 0-15K, 0-20K, 0-25K PSIS PERFORMANCE Combined Accuracy (BFSL) (Non-Linearity, Hysteresis & Repeatability).....≤ ± 0.25% FSO Zero Balance......4 mA ±1% FSO @70°F Compensated 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) .....≤±0.25% FS0 per 6 months Thermal Effect on Zero ......≤±1% FSO per 100°F Typical Thermal Effect on Span ......≤±1% FSO per 100°F Typical **ELECTRICAL** Supply Voltage ......9-28 Vdc Circuit Protection......Reverse polarity protected RFI/EMI.....<1% FSO output change with 3V Rms from 150 kHz to 80 MGz (80% AM modulated at 1 kHz) applied to power supply and signal lines [IEC 61000-4-6 radio frequency common mode immunity], 1% output change when exposed to a radiated electromagnetic field of 10 V/m from 80 MHz to 1 GHz AM modulated at 1 kHz and 3 V/m 1.4 GHz to 2.7 GHz. [IEC 61000-4-3 Radiated electromagnetic field immunity] **( (** (E) FM PAGE 1

Viatran Model 521 Hammer Union Pressure Transmitter measuring pump discharge pressure

for drilling, fracturing, acidizing, cementing and nitrogen injection

## Viatran

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38 Forge Parkway Franklin, MA 02038 USA

98DS521 REV. E

 Hotline:
 1-800-688-0030

 Phone:
 1-716-629-3800

 Fax:
 1-716-693-9162

 Email:
 solutions@viatran.com

 Web:
 www.viatran.com



ELECTRICAL (cont.)	Voltage Spike Protection	Withstand 1000 volt spike per EN 61000-4-5 
		100 $\pm$ 10% FSO by exciting pins E&F
	Calibration Power Supply Voltage	
		signal output
	Bridge Resistance	
		type connector
MECHANICAL	Standard Pressure Port	Male hammer union 2 inch #2002
	Pressure Cavity Volume	Standard: 0.45 cubic inches
	Zero Effect from Installation	<
MATERIALS OF CONSTRUCTION	Wetted Materials	NACE compliant Inconel 718 wetted material as standard (MR0175/ISO 15156-3:2009(E))
	Enclosure Material	
	Identification	
	Enclosure Rating	
	Weight	
OPTIONS	DC	Compensated temperature -40°F to 140°F
	DG	Improved temperature compensation
	DH	
	DN	
	EA	
	LW	
	NA	
		Customer specific identification
	NP	
	NF NQ	
	Z()	
APPROVALS	FA	Duccian Matrology Cartificata
	т.м NV	Canada Intrinsic Safety Label
	۱۸۸ TJ	
	NK	
	ТК	
		IECEX International Intrinsic Safety Label
		IECEX International Non-Incendive
	TW	
	TF	
	TG	US & Canada Intrinsic Satety Labels

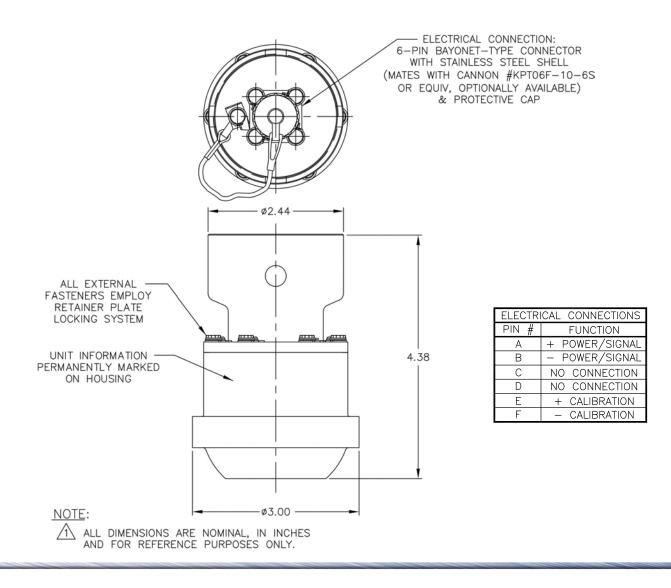


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#### **CERTIFICATIONS (CONSULT FACTORY FOR AVAILABLE OPTIONS)**

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
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- 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
- EUROPE 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
- RUSSIA Intrinsic Safety: 0Ex ia IIC Ga, T4:  $-20^{\circ}C \le Ta \le +80^{\circ}C$ , T5:  $-20^{\circ}C \le Ta \le +40^{\circ}C$ Russian Metrology Certificate



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. 98DS521 REV. E



#### **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 <sup>®</sup> Modem (Various PC connections and cable lengths/connections available) 24VDC power source Power Xpress kit 250 ohm resistor

\*HART ® is a registered trademark of the HART ® Communications Foundation

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