

Model 811

HAMMER UNION PRESSURE TRANSDUCER

Viatran 811 Hammer Union Pressure Transducer for measuring pump discharge pressure for drilling, fracturing, acidizing, cementing and nitrogen injection.

- Patented[†] Design to withstand extreme vibration and abusive impact
- Impervious to Fluid Ingress with patented angled connector base, drain holes, and sealing method
- Easy Access Connector Housing 77% greater area
- Expanded compensated temperature range
- Improved sealing method for connector pins
- RoHS compliant





PERFORMANCE

Full Scale Pressure Ranges......0-5K, 0-6K, 0-10K, 0-15K, 0-20K PSIS (0-350, 410, 700, 1000, 1400 Bar)

Combined Accuracy (RSS)

(Non-Linearity, Hysteresis & Repeatability).....≤ ± 0.25% FSO

Full Scale Output (FSO)≥15 mV @10 Vdc @70° F

Zero Balance...... 0.0 mV ±1% FS0

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°F to 302°F (-55°C to 150°C)
Long Term Stability (%FS0) $\leq \pm 0.25\%$ FS0 per 6 months

Thermal Effect on Zero $\le \pm 1\%$ FSO per 100°F Typical Thermal Effect on Span $\le \pm 1\%$ FSO per 100°F Typical

ELECTRICAL

Output Signal≥1.5 mV/V @70°F

Supply Voltage10 Vdc nominal, 15 Vdc maximum

†Patents:

[†]US Patents D711266, US 9,607,596 B2

†EU Patent No. 002334250-001

[†]CN Patent ZL 201330527540.1

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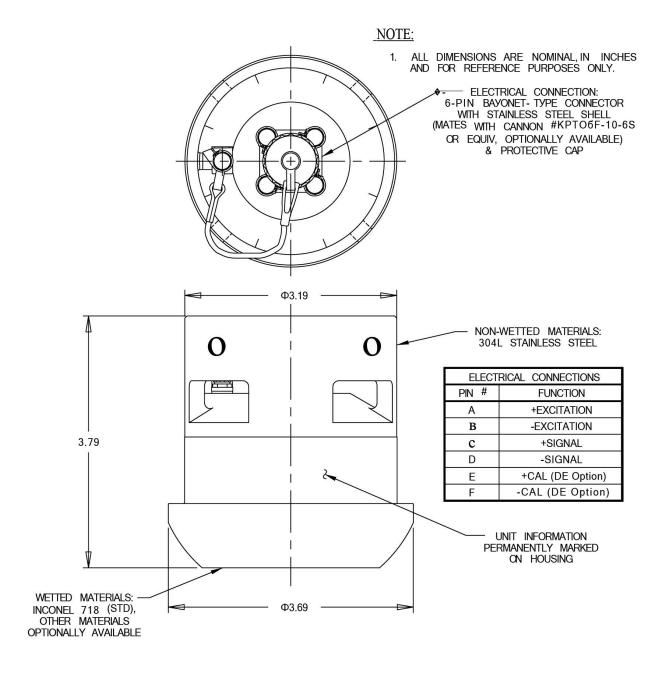
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ELECTRICAL (cont.)			
	Insulation Resistance		
	Response Time	<1 millisecond to reach 90% of FS0	
	Bridge Resistance	10K ohms, nominal	
	Standard Electrical Connection		
MECHANICAL	Standard Pressure Port		
	Pressure Cavity Volume	Standard: 0.45 cubic inches	
	Shock Sensitivity Proof Pressure		
MATERIALS OF CONSTRUCTION	Wetted Materials	NACE compliant Inconel 718 wetted material as standard (MR0175/ISO 15156-3:2009(E))	
	Enclosure Material	304 Stainless Steel	
	Identification	Laser marked on body of unit	
	Weight	5.6 lbs. nominal	
OPTIONS	DC DD DEShunt Cal	Extended Compensated Temperature Range (Cold) -40°F to 140°F (-40°C to 60°C)Standardized Output	
	Range Calibration Signal100% FSO ±10% by shorting pins E&F		
	Calibration Signal AccuracyReadings on calibration certificate are within ±0.2% FSO of actual Cal signal output		
	DG DH		
		Special Calibration Shunt Value	
	DQ		
	EA	•	
		Extended Compensated Temperature Range (Hot) +40°F to 180°F (4°C to 82°C)	
	LW		
		Carrying handle attached	
		Customer specific identification	
	NH	·············	
	NH NP NQ	Protective ring cage	













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NOTES

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