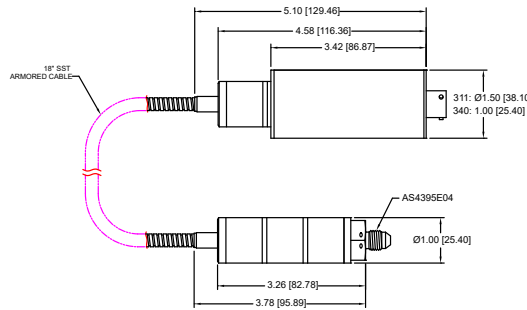


Model 311 Liquid H2 Compatible LIQUID HYDROGEN PRESSURE TRANSDUCER

Consult factory for optional output wiring



STANDARD WIRING

PIN	MODEL 311 Series	MODEL 340 Series	PIN	MODEL 211 Series	MODEL 240 Series
A/1	+EXC/SIG	+EXC/SIG	A/1	+EXC	+EXC
B/2	CASE GND	N/C	B/2	+SIG	+SIG
C/3	N/C	N/C	C/3	N/C	N/C
D/4	-EXC/SIG	-EXC/SIG	D/4	-EXC/SIG	-EXC/SIG
E/5	+SHUNT (OPT)	N/C	E/5	N/C	N/C
F/6	-SHUNT (OPT)	N/C	F/6	N/C	N/C



Inches (mm)

Standard configurations shown.
Please consult factory for other options.

PRODUCT OVERVIEW:

The Model 311H2 Series from GP:50 is based on the established and reliable 211/311 cryogenic range. It offers reliable pressure sensing in liquid hydrogen, liquid helium or other very low temperature applications. Remote mounted electronics provide a high-level 4-20mA output with trim pots provide zero and span adjustment. The SST, armor jacketed cable provides flexibility in mounting the electronics away from the process temperature. 18"-36" remote flex lengths are available.

FEATURES:

- Cryogenic service down to -423 °F (-253 °C) process
- Operating temperature to +100 °F (+37.7 °C)
- Remote electronics via stainless armored flex cable
- Zero and span adjustment
- Pressure ranges 0-300psi (20.6 BAR)
- Proof pressure 0-600psi (41 bar)
- Nitronic 50 wetted parts
- 6 point Calibration at -320 °F (-196 °C)
- ATEX / IEC approvals

APPLICATIONS:

- Liquid Helium, Liquid Hydrogen processing, transportation, dispensing & storage

OPTIONS:

- 18"-36" armor jacketed cable lengths
- 0-5 Vdc & various digital protocols

*For details on available approvals, go to:
<https://www.gp50.com/certifications/>

GP:50 MODEL 311 Liquid Hydrogen

REFERENCE SPECIFICATIONS

(Standard configurations shown, consult factory for other options)

ELECTRICAL	
Output Signal:	Model 311/340: 4-20 mA
Temperature Output:	Optional consult factory
Excitation Voltage:	Model 311 10-28 Vdc
Circuit Protection:	RFI/EMI & Reverse Polarity protected
Response Time:	<4 ms

MATERIALS OF CONSTRUCTION	
Port/Sensor Cryo:	≥300 PSI Nitronic 50
Port Sensor High-Temp:	Nitronic 50
Armored Cable:	316L
Housing:	300 Series SST

ACCURACY (BFSL): Hysteresis, non-Linearity & Repeatability	
Static:	0.2% FSO BFSL
Zero & Span Balance:	±1% FSO

MECHANICAL	
Process Connection:	AS4395E-04 (M) pressure port
Electrical Connection:	PTIH-10-6P (6-Pin Amphenol)
Proof Pressure:	1.5X Pressure Range
Burst Pressure:	2X
Approximate Weight:	1 lb (0.5 kg)

Cryogenic Ranges:	0-300 PSI PSIA (20.6 BAR)
High Temperature Ranges:	150 PSI thru 15K PSI (10 thru 1,034 BAR)
Formats:	Absolute

THERMAL SPECIFICATIONS	
Cryogenic Unit (HD):	
Operating Range: (Ambient)	-423.4 °F to +100 °F (-253 °C to +37.7°C)*
Compensated Range: (Process)	-320 °F to +70 °F (-195 °C to +21.1 °C)
Effect on Zero/Span:	±1.0% FSO/100 °F for ranges ≥ 1K PSI (69 BAR) ±2.0% FSO/100 °F for ranges < 1K PSI (69 BAR)
<i>*Operating outside the compensated range may offset the unit's readings permanently. Consult factory for options.</i>	

Specifications are indicative of prototype and subject to change without notice.

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311H2_V1.0_2023_10_04



All specifications are for reference purposes only. In the interests of continuous product improvement, all specifications are subject to change without notice. Please contact GP:50 for assistance with your application.