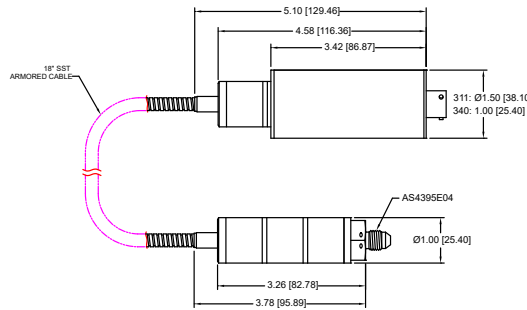




INDUSTRIAL

MODEL 211/311 HD-QX & 240/340 HD-QX CRYOGENIC (HD) & HIGH TEMPERATURE (QX) 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 211/311 HD-QX & 240/340 HD-QX Series from GP:50 offer reliable pressure sensing in cryogenic or high temperature applications. Remote mounted electronics provide a high-level 4-20 mA or 0-5 Vdc output with optional CANbus, RS485 Modbus, USB or RS232 digital protocols. 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 -320 °F (-195 °C) process (HD)
- High temperature operation to +350 °F (+177 °C) process (QX)
- Remote electronics via stainless armored flex cable
- Remote electronics provide analog or digital output
- Pressure ranges from 0-50 thru 0-15K PSI (3.5 thru 1,034 BAR)
- Corrosion-resistant parts
- Economically priced
- Available in 0-5 Vdc (model 211-HD and 211-QX)

APPLICATIONS:

- CNG/LNG processing, transportation, dispensing & storage
- Oil field and well service nitrogen pumping equipment
- High temperature reactor pressures

OPTIONS:

- ATEX, CSA approvals* (211 & 311 only)
- 18"-36" armor jacketed cable lengths
- Zero and span adjustments
- Inconel, Monel and Titanium wetted parts
- 0-5 Vdc & various digital protocols

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



GP:50 MODEL 211/311 HD-QX & 240/340 HD-QX

REFERENCE SPECIFICATIONS

(Standard configurations shown, consult factory for other options)

ELECTRICAL	
Output Signal:	Model 311/340: 4-20 mA Model 211/240: 0 to 5 Vdc
Temperature Output:	Optional consult factory
Excitation Voltage:	Model 311/340: 10-28 Vdc Model 211/240: 14.5 to 32 Vdc
Circuit Protection:	RFI/EMI & Reverse Polarity protected
Response Time:	<4 ms

MATERIALS OF CONSTRUCTION	
Port/Sensor Cryo:	≥500 PSI - 6000 PSI: 17-4PH (Inconel, Nitronic 50 or Monel optional) <400 PSI: Titanium
Port Sensor High-Temp:	17-4PH Stainless Steel (Inconel, Nitronic 50 or Monel optional)
Armored Cable:	316L
Housing:	300 Series SST
O-Ring: (QX Option Only)	Buna-N (Nitrile) is standard. (Expanded temp range -65 °F to 350 °F, Flourosilicone is standard)

ACCURACY (BFSL): Hysteresis, non-Linearity & Repeatability @ +70 °F	
Standard:	0.5% FSO
Improved:	0.2% FSO
Zero & Span Balance:	±1% FSO

MECHANICAL	
Process Connection:	AS4395E04 pressure port
Electrical Connection:	PTIH-10-6P (6-Pin Amphenol)
Proof Pressure:	1.5X Pressure Range
Burst Pressure:	2X-5X Range Dependent
Approximate Weight:	1 lb (0.5 kg)

PRESSURE RANGES	
Cryogenic Ranges:	0-150 PSI thru 0-6K PSIA (10 thru 414 BAR) (Monel or Inconel wetted parts)
High Temperature Ranges:	150 PSI thru 15K PSI (10 thru 1,034 BAR)
Formats:	Sealed gauge or absolute

THERMAL SPECIFICATIONS	
Cryogenic Unit (HD):	
Operating Range: (Ambient)	-40 °F to +250 °F (-40 °C to +122 °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)
High Temperature Unit (QX):	
Operating Range: (Ambient)	-40 °F to +250 °F (-40 °C to +122 °C)*
Compensated: (Process)	+70 °F to +350 °F (+21.1 °C to +177 °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>	

