CANADA SENSORS TECHNOLOGY INC.

Manufacturer of Advanced Technology Pressure & Level Transmitters

CRN Approval **ISO 9001:2015**

CI D2 Grp ABCD Class I Zone 2
AEx ec IIC T4 Gc, Ex ec IIC T4 Gc

PRESSURE TRANSMITTER – PROCESS 6-HYD
Increased Safety Model for Hydrogen Service

Canada Sensors Technology Inc. offers an affordable solution with the Process 6-HYD Pressure Transmitter without sacrificing quality or longevity of use.

FEATURES

- ✓ Increased Safety for Class I, Div. 2, Zone 2 Hazardous Locations for High Pressure Hydrogen Service
- ✓ 4 – 20 mA Two Wire, Voltage, MODbus, CANbus, J1939
- ✓ 0.25% BSL Accuracy
- ✓ Monolithic Block Glass Bonded One Piece Stainless Steel Machined Sensor
- ✓ No Welded Diaphragms, No Internal O-rings, No Silicone Oil Fill
- ✓ Single seal compliant to ANSI/ISA-12.27.01.2003
- ✓ Zero & Span Function
- ✓ >100 million Cycles
- ✓ Pressure Ranges 15,000 PSI, 20,000 PSI, 30,000 PSI
- ✓ Heavy Duty 316SS Powder Coated Canister
- ✓ Temperature Compensated 0C to +50C
- ✓ Maximum Operating Temperature -40C to +95C
- ✓ Ingress Protection IP65 (up to IP67 on request)
- ✓ Multiple Electrical Connectors & Housings Available
- ✓ Hardened 316SS or Gold Coated 316SS Autoclave ¼" F250C Process Connection
- ✓ Laser Engraved Product Information
- ✓ RoHS Compliant
- ✓ 1 Year Conditional Warranty (Serial Number Traceability)
- ✓ Unparalleled Value

Contact Us:

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Manufacturer of Advanced Technology
Level and Pressure Transmitters

MISSION STATEMENT

Canada Sensors Technology Inc. strives to build a mutually positive and beneficial relationship with our customers, ensuring their long-term success, through the understanding of their needs and the needs of their customers.

We will listen to our customers and constantly improve our technologies as our customers' needs change with time.

Canada Sensors Technology Inc. is committed to providing the highest level of product quality and customer service.
Canada Sensors Technology Inc. Quality Management System is certified as being in conformity with ISO 9001:2015 by Intertek

Technical Specifications - Process 6 - HYD

Performance

Accuracy:	0.25% Full Scale Output
Stability:	< 0.1% Full Scale Output/Year
Temperature Range:	-40C to +95C
Pressure Cycles:	> 100 Million
Over Range Protection:	2 x Full Scale Output
Burst Pressure:	5 x Full Scale Output

NOTE: Over Range Protection and Burst Pressure shall be reduced to 1.5 x Full Scale Output for pressures exceeding 10,000 PSI due to thread limitations

Environmental Data

Temperature

Operating:	-40C to +95C (product accessories may alter temperature ratings)
Storage:	-55C to +125C

Thermal Limits

Compensated Range:	0 to +50C
Temp Comp Zero:	1% Full Scale Output @ +50C
Temp Comp Span:	1% Full Scale Output @ +50C

Electrical Data

Excitation:	10 - 28 VDC (product accessories may alter excitation values)
Comms:	4-20 mA, 0-5 VDC or 0-10 VDC or Ratio Metric, RS485-Modbus, CANopen, J939
Current Consumption:	5 mA
Zero Offset:	0.5% Full Scale Output
Span Tolerance:	0.5% Full Scale Output
Output Load:	9 Volts typical @ 24 VDC 750 OHMS
Increased Safety for Zone 2 Division 2 Hazardous Locations	

Pollution Degree 4

Installation Category I

NOTE: An Ex Barrier is required for any connections that cross the boundary from an Ordinary Location (Non-Classified/Non-Hazardous) to a Classified (Hazardous) location

Note: Electrical Connection: Big-DIN 43650A is limited to Class I Div II installations

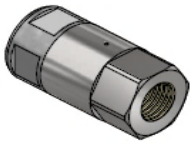
Physical Data

Sensor:	Hardened 316SS is standard on all Monolithic Block or Gold Coated ASTM F519
Vibration:	25gRMS from 20Hz to 2000Hz
Shock:	100g , half sine, 11mSec.
Sensor:	**Silicone Oil Filled NOT Available on this model**
Vibration:	25gRMS from 20Hz to 2000Hz
Shock:	100g , half sine, 11mSec.
NOTE: Silicone Oil Filled Sensors are a factory option for low pressure	
Process Connection:	1/4" F250C
NOTE: ANSI Regulations dictate that NPT Thread should not to exceed 8,000 PSI @ +125C	
Electrical Connection:	316SS Thread-on 1/2" MNPT Solid Conduit Fitting or w/ Aluminum XP Heads; Big-DIN 43650A; Bendix Twist 6 Pin (PTIH-10-6P); M12

NOTE: 316SS Wetted Parts are the minimum requirement for NACE compliance

Product Weights:	OZ	LBS	KG
Process 6-HYD w/ F250C Autoclave & 316SS Thread-on ½" MNPT Solid Conduit Fitting (2 ft Flying Lead)	24.0	1.5	0.68
Process 6-HYD w/ F250C Autoclave & Big-DIN (43650A 90 Degree Hirshcmann) or Bendix Twist 6 Pin (PTIH-10-6P) or M12	15.0	0.9	0.43
Process 6-HYD w/ F250C Autoclave & Aluminum XP Head (1/2" FNPT x 3) - 316SS Thread-on 1/2" MNPT Solid Conduit Fitting - Blank - No Window	59.0	3.7	1.67
Process 6-HYD w/ F250C Autoclave & Aluminum XP Head (1/2" FNPT x 3) - 316SS Thread-on 1/2" MNPT Solid Conduit Fitting w/ 5 Digits LCD Loop Powered Display	112.0	7.0	3.18

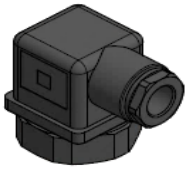
Process Connections:



1/4" F250C

THREAD ON 1/2" MNPT

Electrical Connections:



43650A DIN CONNECTOR (BIG-DIN HIRSCHMANN)

BENDIX TWIST CONNECTOR 6 PIN

M12 - 4 PIN

Product Accessories

Aluminum XP Head (1/2" FNPT x 3) - 316SS Thread-on 1/2" MNPT Solid Conduit Fitting - Blank - No Window

Aluminum XP Head (1/2" FNPT x 3) - 316SS Thread-on 1/2" MNPT Solid Conduit Fitting w/ 5 Digits LCD Loop Powered Display

Product Nomenclature

MODEL: Pressure Transmitter - Process 6-HYD

PN Example: A-B-C-D-E-F-G-H-I-J

06-HYD-01-03-01-034-09-02-12-03-02:

Process 6-HYD Transmitter, 4-20 mA, Zero and Span, Gauge (PSIG), 0 - 20000 PSI, 1/4" F250C, 316SS Wetted Parts, 316SS Thread-on 1/2" MNPT Solid Conduit Fitting with 2 ft Flying Lead, Gold Coating, 0.25% Accuracy

	A	B	C	D	E	F	G	H	I	J
Model										
06-HYD - Process 6-HYD										
Output										
01 - 4-20 mA										
02 - 0-5 Volts										
03 - 0-10 Volts										
04 - RS485 – Modbus										
05 - CANopen										
06 - J1939										
Calibration Adjustment										
03 - Zero and Span										
Pressure Reference										
01 - Gauge (PSIG)										
02 - Absolute (PSIA)										
Pressure Range										
033 - 0 – 15000 PSI										
034 - 0 – 20000 PSI										
035 - 0 – 30000 PSI										
Process Connection										
09 - ¼" F250C										
Wetted Parts										
02 - 316SS										
Electrical Connection										
12 - 316SS Thread-on ½" MNPT Solid Conduit Fitting (2 ft Flying Lead)										
13 - 316SS Thread-on ½" MNPT Solid Conduit Fitting (4 ft Flying Lead)										
14 - 316SS Thread-on ½" MNPT Solid Conduit Fitting (6 ft Flying Lead)										
15 - 316SS Thread-on ½" MNPT Solid Conduit Fitting (10 ft Flying Lead)										
22 - Big-DIN (DIN 43650A 90 Degree Hirschmann)										
31 - Bendix Twist Connector 6 Pin (PTIH-10-6P)										
32 - M12										
36 - Aluminum XP Head (1/2" FNPT x 3) - 316SS Thread-on 1/2" MNPT Solid Conduit Fitting - Blank - No Window										
42 - Aluminum XP Head (1/2" FNPT x 3) - 316SS Thread-on 1/2" MNPT Solid Conduit Fitting w/ 5 Digits LCD Loop Powered Display										
Environmental Treatment										
02 - No Treatment										
03 - Gold Coating										
Accuracy										
02 - 0. 25 %										

E: Alternate Pressure Range Units

kPa			
kPa	**033 - kPa**	-	**0 – 100000 kPa**
kPa	**034 - kPa**	-	**0 – 140000 kPa**
kPa	**035 - kPa**	-	**0 – 200000 kPa**
mBar			
mBar	**033 - mBar**	-	**0 – 1000000 mBar**
mBar	**034 - mBar**	-	**0 – 1400000 mBar**
mBar	**035 - mBar**	-	**0 – 2000000 mBar**
mm Hg			
mm Hg	**033 - mm H**	-	**0 – 800000 mm Hg**
mm Hg	**034 - mm H**	-	**0 – 1000000 mm Hg**
mm Hg	**035 - mm H**	-	**0 – 1500000 mm Hg**
in H_2O (60° F)			
in H_2O (60° F)	**033 - in H_2C**	-	**0 - 400000 in H_2O (60° F)**
in H_2O (60° F)	**034 - in H_2C**	-	**0 - 500000 in H_2O (60° F)**
in H_2O (60° F)	**035 - in H_2C**	-	**0 - 800000 in H_2O (60° F)**
mm H_2O (4° C)			
mm H_2O (4° C)	**033 - mm H_2O**		**0 - 10000000 mm H_2O (4° C)**
mm H_2O (4° C)	**034 - mm H_2O**		**0 - 14000000 mm H_2O (4° C)**
mm H_2O (4° C)	**035 - mm H_2O**		**0 - 20000000 mm H_2O (4° C)**
in Hg (32° F)			
in Hg (32° F)	**033 - in Hg**	-	**0 - 30000 in Hg (32° F)**
in Hg (32° F)	**034 - in Hg**	-	**0 - 40000 in Hg (32° F)**
in Hg (32° F)	**035 - in Hg**	-	**0 - 60000 in Hg (32° F)**
Bar			
Bar	**033 - Bar**	-	**0 – 1000 Bar**
Bar	**034 - Bar**	-	**0 – 1400 Bar**
Bar	**035 - Bar**	-	**0 – 2000 Bar**
ata (kg/cm^2)			
ata (kg/cm^2)	**033 - ata**	-	**0 - 1000 ata (kg/cm^2)**
ata (kg/cm^2)	**034 - ata**	-	**0 - 1400 ata (kg/cm^2)**
ata (kg/cm^2)	**035 - ata**	-	**0 - 2100 ata (kg/cm^2)**