

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:

Canada Sensors Technology Inc.

10 – 328 Wale Road
Victoria, BC V9B 0J6
Canada
250-588-8085

sales@canadasensors.com
www.canadasensors.com

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. operates a Quality Management System that ensures compliance with the requirements of ISO 9001:2015 and relevant legislation.

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

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

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

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

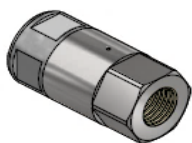
NOTE: 316SS Wetted Parts are the minimum requirement for NACE compliance

Product Weights:

	OZ	LBS	KG
Process 6-HYD w/ F250C Autoclave & 316SS Thread-on 1/2" MNPT Solid Conduit Fitting (2 ft Lead)	24.0	1.5	0.68
Process 6-HYD w/ F250C Autoclave & Big-DIN (43650A 90 Degree Hirshmann) 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:

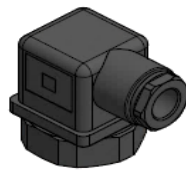
Electrical Connections:



1/4" F250C



THREAD ON 1/2" MNPT



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 Lead Extension Wire, 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 Lead Extension Wire)									
	13	-	316SS Thread-on ½" MNPT Solid Conduit Fitting (4 ft Lead Extension Wire)									
	14	-	316SS Thread-on ½" MNPT Solid Conduit Fitting (6 ft Lead Extension Wire)									
	15	-	316SS Thread-on ½" MNPT Solid Conduit Fitting (10 ft Lead Extension Wire)									
	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 Hg	-	0 – 800000 mm Hg
mm Hg	034 - mm Hg	-	0 – 1000000 mm Hg
mm Hg	035 - mm Hg	-	0 – 1500000 mm Hg

in H₂O (60° F)

in H ₂ O (60° F)	033 - in H ₂ O	-	0 - 400000 in H ₂ O (60° F)
in H ₂ O (60° F)	034 - in H ₂ O	-	0 - 500000 in H ₂ O (60° F)
in H ₂ O (60° F)	035 - in H ₂ O	-	0 - 800000 in H ₂ O (60° F)

mm H₂O (4° C)

mm H ₂ O (4° C)	033 - mm H ₂ O	-	0 - 10000000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	034 - mm H ₂ O	-	0 - 14000000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	035 - mm H ₂ O	-	0 - 20000000 mm H ₂ O (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/cm²)

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)