

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 Increased Safety Model

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

FEATURES

- ✓ Increased Safety for Class I, Div. 2, Zone 2 Hazardous Locations for High Pressure
- ✓ 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
- ✓ Autoclave ¼" F250C Process Connection (17-4phSS or 316SS)
- ✓ Laser Engraved Product Information
- ✓ RoHS Compliant
- ✓ 2 Year Conditional Warranty (Serial Number Traceability)
- ✓ Unparalleled Value



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

Technical Specifications - Process 6**Performance**

Accuracy:	0.25% Full Scale Output
Stability:	< 0.1% Full Scale Output/Year
Temperature Range:	-40C to +95C
Temperature Accuracy:	1% Full Scale Output @ +50C
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

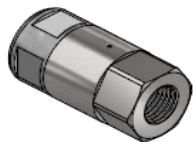
Physical Data

Sensor:	Monolithic Block: 17-4phSS or 316SS
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:

	<u>OZ</u>	<u>LBS</u>	<u>KG</u>
Process 6 w/ F250C Autoclave & 316SS Thread-on 1/2" MNPT Solid Conduit Fitting (2 ft Lead)	24.0	1.5	0.68
Process 6 w/ F250C Autoclave & Big-DIN (43650A 90 Degree Hirschmann) or Bendix Twist 6 Pin (PTIH-10-6P) or M12	15.0	0.9	0.43
Process 6 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 w/ F250C Autoclave & Aluminum XP Head (1/2" FNPT x 3) - 316SS Thread-on 1/2" MNPT Solid Conduit Fitting w/ Digits LCD Loop Powered Display	112.0	7.0	3.18

Process Connections:

1/4" F250C

Electrical Connections:

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

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

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

Process 6 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, No Treatment, 0.25% Accuracy

	A	B	C	D	E	F	G	H	I	J
Model										
06	-	Process 6								
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)								
03	-	Sealed Gauge								
Pressure Range										
033	-	0 – 15000 PSI								
034	-	0 – 20000 PSI								
035	-	0 – 30000 PSI								
Process Connection										
09	-	¼" F250C								
Wetted Parts										
01	-	17-4phSS								
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								
04	-	DLC (Diamond Like 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)