CANADA SENSORS TECHNOLOGY INC.



Manufacturer of Advanced Technology Pressure & Liquid Level Transmitters

PRESSURE TRANSMITTER – PROCESS 5 General Purpose Service for High Pressure

Canada Sensors Technology Inc. offers an affordable solution with the Process 5 Pressure Transmitter without sacrificing quality or longevity of use.

FEATURES

- √ 4 20 mA Two Wire, Voltage, MODbus, CANbus, J1939, USB, Ethernet
- ✓ 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 +105C
- ✓ Ingress Protection IP65
- ✓ Approved for General Purpose Use
- ✓ Multiple Electrical Connectors & Housings Available
- ✓ Autoclave ¼" F250C Process Connection (316SS)
- ✓ Laser Engraved Product Information
- ✓ RoHS2 Compliant Directive 2011/65/EU
- ✓ 2 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. is ISO 9001:2015 certified.

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Technical Specifications

Performance

Accuracy:	0.25% Full Scale Output
Stability:	< 0.1% Full Scale Output/Year
Temperature Range:	-40C to +105C
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:	9-32 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, USB, Ethernet	
Current Consumption:	5 mA	
Zero Offset:	0.5% Full Scale Output set by Customer	
Span Tolerance:	0.5% Full Scale Output set by Customer	
Output Load:	9 Volts typical @ 24 VDC 750 OHMS	

Environmental Data

Temperature

Temperature			
Operating:	-40C to +105C		
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

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Sensor:	Monolithic Block: 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; Bendix Twist 6 Pin;			

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

Product Weights: ΟZ LBS KG Process 5 w/ F250C Autoclave & 316SS Thread-on 1/2" MNPT Solid Conduit Fitting (2 ft Flying Lead) 24.0 1.5 0.68 Process 5 w/ F250C Autoclave & Big-DIN (DIN 43650 90 Degree Hirschmann); or Bendix Twist 6 Pin; 15.0 0.9 0.43 Process 5 w/ 250C Autoclave & Aluminum XP Head (1/2" FNPT x 3) - 316SS Thread-on 1/2" MNPT Solid Conduit Fitting (2ft Flying Lead) Blank - No Window 59.0 1.67 Process 5 w/ F250C Autoclave & Aluminum XP Head (1/2" FNPT x 3) - 316SS Thread-on 1/2" MNPT Solid Conduit Fitting (2ft Flying Lead) w/ 5 Digits LCD Loop Powered Display 112.0 3.18

Process Connections:



1/4" F250C

Electrical Connections:







43650A DIN CONNECTOR (BIG-DIN HIRSCHMANN)



BENDIX TWIST CONNECTOR 6 PIN

Product Accessories

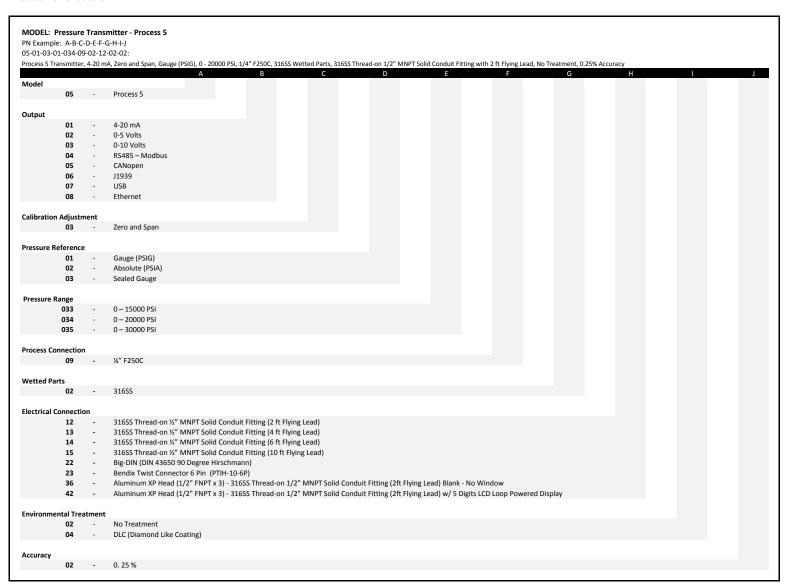
Aluminum XP Head (1/2" FNPT x 3) - 316SS Thread-on 1/2" MNPT Solid Conduit Fitting (2ft Flying Lead) Blank - No Window

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





Product Nomenclature



E: Alternate Pressure Ra	ange Units		
	, 0		
kPa			
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
11-			
mm Hg mm Hg	033 - mm H	-	0 – 800000 mm Hg
mm Hg		-	0 - 1000000 mm Hg
mm Hg	035 - mm H	-	0 – 1500000 mm Hg
in H₂O (60° F)			
in H ₂ O (60° F)	033 - in H ₂ C	-	0 - 400000 in H ₂ O (60° F)
in H ₂ O (60° F)	034 - in H ₂ C	-	0 - 500000 in H ₂ O (60° F)
in H ₂ O (60° F)	035 - in H ₂ C	-	0 - 800000 in H ₂ O (60° F)
mm H ₂ O (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 $_{12}$ O (4 $^{\circ}$ 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)
B			
Bar Bar	033 - Bar		0 – 1000 Bar
Bar	034 - Bar	-	0 – 1000 Bar - 1400 Bar
Bar	035 - Bar	-	0 – 2000 Bar
ata (kg/cm²)			
ata (kg/cm²)		-	0 - 1000 ata (kg/cm²)
ata (kg/cm²)	034 - ata	-	0 - 1400 ata (kg/cm²)
ata (kg/cm²)	035 - ata	-	0 - 2100 ata (kg/cm²)