

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 4 Increased Safety Model

Canada Sensors Technology Inc. offers an affordable solution with the Process 4 Pressure Transmitter without sacrificing quality or longevity of use.

FEATURES

- ✓ Increased Safety for Class I, Div. 2, Zone 2 Hazardous Locations
- ✓ 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 from -30"Hg Vacuum to 10,000 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
- ✓ Multiple Process Connection Materials & Connection Threads Available
- ✓ Laser Engraved Product Information
- ✓ RoHS Compliant
- ✓ 2 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. operates a Quality Management System that ensures compliance with the requirements of ISO 9001:2015 and relevant legislation.

Technical Specifications - Process 4

Performance

Accuracy:	0.25% BSL 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

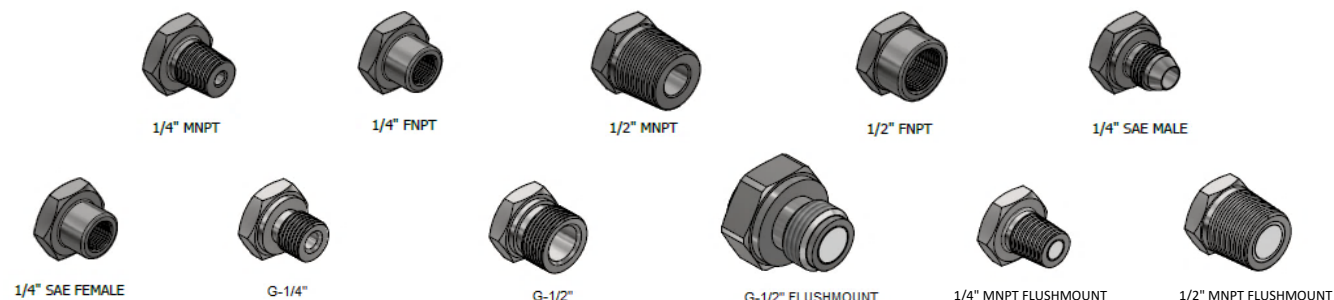
Sensor:	Monolithic Block: 17-4phSS, 316SS, Inconel-718, Titanium, Hastalloy-276
Vibration:	25gRMS from 20Hz to 2000Hz
Shock:	100g, half sine, 11mSec.
Sensor:	Silicone Oil Filled: 17-4phSS, 316SS, Inconel-718, Titanium, Hastalloy-276
Vibration:	25gRMS from 20Hz to 2000Hz
Shock:	100g, half sine, 11mSec.
NOTE: Silicone Oil Filled Sensors are a factory option for low pressure	
Process Connection:	1/4" MNPT; 1/4" FNPT; 1/2" MNPT; 1/2" FNPT; 1/4" SAE-Male; 1/4" SAE-Female; G-1/4"; G-1/2"; G-1/2" Flushmount; 1/4" MNPT Flushmount; 1/2" MNPT Flushmount
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

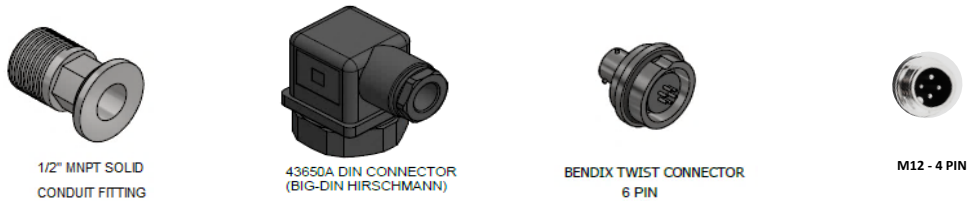
Product Weights:

	OZ	LBS	KG
Process 4 w/ 316SS Thread-on 1/2" MNPT Solid Conduit Fitting (2 ft Lead Extension Wire)	20.5	1.3	0.58
Process 4 w/ Big-DIN (43650A 90 Degree Hirschmann) or Bendix Twist 6 Pin (PTIH-10-6P) or M12	11.5	0.7	0.33
Process 4 w/ Aluminum XP Head (1/2" FNPT x 3) - 316SS Thread-on 1/2" MNPT Solid Conduit Fitting - Blank - No Window	55.5	3.5	1.57
Process 4 w/ Aluminum XP Head (1/2" FNPT x 3) - 316SS Thread-on 1/2" MNPT Solid Conduit Fitting w/ 3 1/2 + Digits LCD Loop Powered Display	68.5	4.3	1.94
Process 4 w/ Aluminum XP Head (1/2" FNPT x 3) - 316SS Thread-on 1/2" MNPT Solid Conduit Fitting w/ 5 Digits LCD Loop Powered Display	108.5	6.8	3.08

Process Connections:

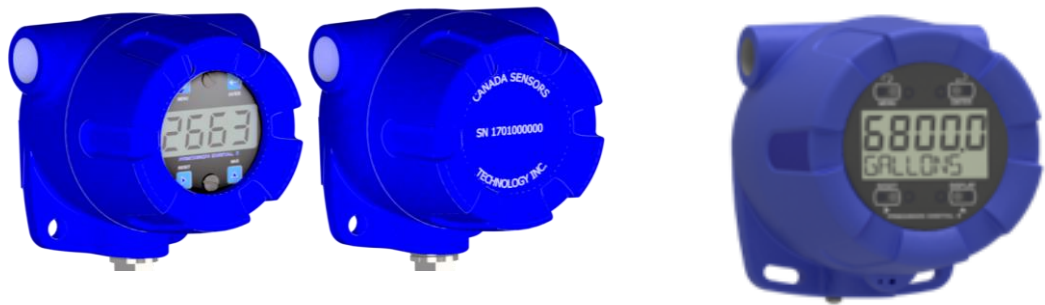


Electrical Connections:



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/ 3 1/2 + Digits LCD Loop Powered Display
- 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 4

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

04-01-03-01-025-02-01-12-02-02:

Process 4 Transmitter, 4-20Ma, Zero and Span, Gauge (PSIG), 0 - 1500 PSI, 1/4" FNPT, 17-4ph Wetted Parts, 316SS Thread-on 1/2" MNPT Solid Conduit Fitting with 2 ft Lead Extension Wire, No Treatment, 0.25% Accuracy

Model	A	B	C	D	E	F	G	H	I	J
04 - Process 4										
Output										
01 - 4-20Ma										
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										
001 - -30"Hg Vac – 0 PSI										
002 - -30"Hg Vac x 15 PSI										
003 - -30"Hg Vac x 30 PSI										
004 - -30"Hg Vac x 60 PSI										
005 - -30"Hg Vac x 100 PSI										
006 - -30"Hg Vac x 150 PSI										
007 - -30"Hg Vac x 200 PSI										
008 - -30"Hg Vac x 300 PSI										
009 - -30"Hg Vac x 600 PSI										
010 - 0 – 2 PSI										
011 - 0 – 5 PSI										
012 - 0 – 10 PSI										
013 - 0 – 15 PSI										
014 - 0 – 30 PSI										
015 - 0 – 60 PSI										
016 - 0 – 100 PSI										
017 - 0 – 150 PSI										
018 - 0 – 200 PSI										
019 - 0 – 300 PSI										
020 - 0 – 400 PSI										
021 - 0 – 500 PSI										
022 - 0 – 600 PSI										
023 - 0 – 750 PSI										
024 - 0 – 1000 PSI										
025 - 0 – 1500 PSI										
026 - 0 – 2000 PSI										
027 - 0 – 3000 PSI										
028 - 0 – 4000 PSI										
029 - 0 – 5000 PSI										
030 - 0 – 6000 PSI										
031 - 0 – 7500 PSI										
032 - 0 – 10000 PSI										
Process Connection										
01 - ¼" MNPT										
02 - ¼" FNPT										
03 - ½" MNPT										
04 - ½" FNPT										
05 - ¼" SAE-Male										
06 - ¼" SAE-Female										
07 - G-¼"										
08 - G-1/2"										
10 - G-1/2" Flushmount										
11 - ¼" MNPT Flushmount										
12 - ½" MNPT Flushmount										
Wetted Parts										
01 - 17-4phSS										
02 - 316SS										
03 - Inconel-718										
04 - Titanium										
05 - Hastelloy-276										
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										
39 - Aluminum XP Head (1/2" FNPT x 3) - 316SS Thread-on 1/2" MNPT Solid Conduit Fitting w/ 3 1/2 + Digits LCD Loop Powered Display										
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	001 - kPa	-	-100 x 0 kPa
kPa	002 - kPa	-	-100 x 100 kPa
kPa	003 - Kpa	-	-100 x 200 kPa
kPa	004 - Kpa	-	-100 x 400 kPa
kPa	005 - kPa	-	-100 x 700 kPa
kPa	006 - kPa	-	-100 x 1000 kPa
kPa	007 - kPa	-	-100 x 1400 kPa
kPa	008 - kPa	-	-100 x 2000 kPa
kPa	009 - kPa	-	-100 x 4000 kPa
kPa	010 - kPa	-	0 – 15 kPa
kPa	011 - kPa	-	0 – 35 kPa
kPa	012 - kPa	-	0 – 70 kPa
kPa	013 - kPa	-	0 – 100 kPa
kPa	014 - kPa	-	0 – 200 kPa
kPa	015 - kPa	-	0 – 400 kPa
kPa	016 - kPa	-	0 – 700 kPa
kPa	017 - kPa	-	0 – 1000 kPa
kPa	018 - kPa	-	0 – 1400 kPa
kPa	019 - kPa	-	0 – 2000 kPa
kPa	020 - kPa	-	0 – 2800 kPa
kPa	021 - kPa	-	0 – 3500 kPa
kPa	022 - kPa	-	0 – 4000 kPa
kPa	023 - kPa	-	0 – 5000 kPa
kPa	024 - kPa	-	0 – 7000 kPa
kPa	025 - kPa	-	0 – 10000 kPa
kPa	026 - kPa	-	0 – 14000 kPa
kPa	027 - kPa	-	0 – 20000 kPa
kPa	028 - kPa	-	0 – 28000 kPa
kPa	029 - kPa	-	0 – 35000 kPa
kPa	030 - kPa	-	0 – 40000 kPa
kPa	031 - kPa	-	0 – 50000 kPa
kPa	032 - kPa	-	0 – 70000 kPa

mBar

mBar	001 - mBar	-	-1000 x 0 mBar
mBar	002 - mBar	-	-1000 x 1000 mBar
mBar	003 - mBar	-	-1000 x 2000 mBar
mBar	004 - mBar	-	-1000 x 4000 mBar
mBar	005 - mBar	-	-1000 x 7000 mBar
mBar	006 - mBar	-	-1000 x 10000 mBar
mBar	007 - mBar	-	-1000 x 14000 mBar
mBar	008 - mBar	-	-1000 x 20000 mBar
mBar	009 - mBar	-	-1000 x 40000 mBar
mBar	010 - mBar	-	0 – 150 mBar
mBar	011 - mBar	-	0 – 350 mBar
mBar	012 - mBar	-	0 – 700 mBar
mBar	013 - mBar	-	0 – 1000 mBar
mBar	014 - mBar	-	0 – 2000 mBar
mBar	015 - mBar	-	0 – 4000 mBar
mBar	016 - mBar	-	0 – 7000 mBar
mBar	017 - mBar	-	0 – 10000 mBar
mBar	018 - mBar	-	0 – 14000 mBar
mBar	019 - mBar	-	0 – 20000 mBar
mBar	020 - mBar	-	0 – 28000 mBar
mBar	021 - mBar	-	0 – 35000 mBar
mBar	022 - mBar	-	0 – 40000 mBar
mBar	023 - mBar	-	0 – 50000 mBar
mBar	024 - mBar	-	0 – 70000 mBar
mBar	025 - mBar	-	0 – 100000 mBar
mBar	026 - mBar	-	0 – 140000 mBar
mBar	027 - mBar	-	0 – 200000 mBar
mBar	028 - mBar	-	0 – 275000 mBar
mBar	029 - mBar	-	0 – 350000 mBar
mBar	030 - mBar	-	0 – 400000 mBar
mBar	031 - mBar	-	0 – 500000 mBar
mBar	032 - mBar	-	0 – 700000 mBar

mm Hg

mm Hg	001 - mm Hg	-	-1500 x 0 mm Hg
mm Hg	002 - mm Hg	-	-1500 x 800 mm Hg
mm Hg	003 - mm Hg	-	-1500 x 1500 mm Hg
mm Hg	004 - mm Hg	-	-1500 x 3000 mm Hg
mm Hg	005 - mm Hg	-	-1500 x 5000 mm Hg
mm Hg	006 - mm Hg	-	-1500 x 8000 mm Hg
mm Hg	007 - mm Hg	-	-1500 x 10000 mm Hg
mm Hg	008 - mm Hg	-	-1500 x 15000 mm Hg
mm Hg	009 - mm Hg	-	-1500 x 30000 mm Hg
mm Hg	010 - mm Hg	-	0 – 100 mm Hg
mm Hg	011 - mm Hg	-	0 – 250 mm Hg
mm Hg	012 - mm Hg	-	0 – 500 mm Hg
mm Hg	013 - mm Hg	-	0 – 800 mm Hg
mm Hg	014 - mm Hg	-	0 – 1500 mm Hg
mm Hg	015 - mm Hg	-	0 – 3000 mm Hg
mm Hg	016 - mm Hg	-	0 – 5000 mm Hg
mm Hg	017 - mm Hg	-	0 – 8000 mm Hg
mm Hg	018 - mm Hg	-	0 – 10000 mm Hg
mm Hg	019 - mm Hg	-	0 – 15000 mm Hg
mm Hg	020 - mm Hg	-	0 – 20000 mm Hg
mm Hg	021 - mm Hg	-	0 – 25000 mm Hg
mm Hg	022 - mm Hg	-	0 – 30000 mm Hg
mm Hg	023 - mm Hg	-	0 – 40000 mm Hg
mm Hg	024 - mm Hg	-	0 – 50000 mm Hg
mm Hg	025 - mm Hg	-	0 – 80000 mm Hg
mm Hg	026 - mm Hg	-	0 – 100000 mm Hg
mm Hg	027 - mm Hg	-	0 – 150000 mm Hg
mm Hg	028 - mm Hg	-	0 – 200000 mm Hg
mm Hg	029 - mm Hg	-	0 – 250000 mm Hg
mm Hg	030 - mm Hg	-	0 – 300000 mm Hg
mm Hg	031 - mm Hg	-	0 – 400000 mm Hg
mm Hg	032 - mm Hg	-	0 – 500000 mm Hg

in H₂O (60° F)

in H ₂ O (60° F)	001 - in H ₂ O	-	-400 x 0 in H ₂ O (60° F)
in H ₂ O (60° F)	002 - in H ₂ O	-	-400 x 400 in H ₂ O (60° F)
in H ₂ O (60° F)	003 - in H ₂ O	-	-400 x 800 in H ₂ O (60° F)
in H ₂ O (60° F)	004 - in H ₂ O	-	-400 x 1500 in H ₂ O (60° F)
in H ₂ O (60° F)	005 - in H ₂ O	-	-400 x 3000 in H ₂ O (60° F)
in H ₂ O (60° F)	006 - in H ₂ O	-	-400 x 4000 in H ₂ O (60° F)
in H ₂ O (60° F)	007 - in H ₂ O	-	-400 x 5000 in H ₂ O (60° F)
in H ₂ O (60° F)	008 - in H ₂ O	-	-400 x 8000 in H ₂ O (60° F)
in H ₂ O (60° F)	009 - in H ₂ O	-	-400 x 16500 in H ₂ O (60° F)
in H ₂ O (60° F)	010 - in H ₂ O	-	0 - 60 H ₂ O (60° F)
in H ₂ O (60° F)	011 - in H ₂ O	-	0 - 150 in H ₂ O (60° F)
in H ₂ O (60° F)	012 - in H ₂ O	-	0 - 300 in H ₂ O (60° F)
in H ₂ O (60° F)	013 - in H ₂ O	-	0 - 400 in H ₂ O (60° F)
in H ₂ O (60° F)	014 - in H ₂ O	-	0 - 800 in H ₂ O (60° F)
in H ₂ O (60° F)	015 - in H ₂ O	-	0 - 1500 in H ₂ O (60° F)
in H ₂ O (60° F)	016 - in H ₂ O	-	0 - 3000 in H ₂ O (60° F)
in H ₂ O (60° F)	017 - in H ₂ O	-	0 - 4000 in H ₂ O (60° F)
in H ₂ O (60° F)	018 - in H ₂ O	-	0 - 5000 in H ₂ O (60° F)
in H ₂ O (60° F)	019 - in H ₂ O	-	0 - 8000 in H ₂ O (60° F)
in H ₂ O (60° F)	020 - in H ₂ O	-	0 - 10000 in H ₂ O (60° F)
in H ₂ O (60° F)	021 - in H ₂ O	-	0 - 14000 in H ₂ O (60° F)
in H ₂ O (60° F)	022 - in H ₂ O	-	0 - 16000 in H ₂ O (60° F)
in H ₂ O (60° F)	023 - in H ₂ O	-	0 - 20000 in H ₂ O (60° F)
in H ₂ O (60° F)	024 - in H ₂ O	-	0 - 30000 in H ₂ O (60° F)
in H ₂ O (60° F)	025 - in H ₂ O	-	0 - 40000 in H ₂ O (60° F)
in H ₂ O (60° F)	026 - in H ₂ O	-	0 - 50000 in H ₂ O (60° F)
in H ₂ O (60° F)	027 - in H ₂ O	-	0 - 80000 in H ₂ O (60° F)
in H ₂ O (60° F)	028 - in H ₂ O	-	0 - 100000 in H ₂ O (60° F)
in H ₂ O (60° F)	029 - in H ₂ O	-	0 - 140000 in H ₂ O (60° F)
in H ₂ O (60° F)	030 - in H ₂ O	-	0 - 160000 in H ₂ O (60° F)
in H ₂ O (60° F)	031 - in H ₂ O	-	0 - 200000 in H ₂ O (60° F)
in H ₂ O (60° F)	032 - in H ₂ O	-	0 - 300000 in H ₂ O (60° F)

mm H₂O (4° C)

mm H ₂ O (4° C)	001 - mm H ₂ O	-	-10000 x 0 mm H ₂ O (4° C)
mm H ₂ O (4° C)	002 - mm H ₂ O	-	-10000 x 10000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	003 - mm H ₂ O	-	-10000 x 20000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	004 - mm H ₂ O	-	-10000 x 40000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	005 - mm H ₂ O	-	-10000 x 70000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	006 - mm H ₂ O	-	-10000 x 100000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	007 - mm H ₂ O	-	-10000 x 140000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	008 - mm H ₂ O	-	-10000 x 200000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	009 - mm H ₂ O	-	-10000 x 400000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	010 - mm H ₂ O	-	0 - 1400 mm H ₂ O (4° C)
mm H ₂ O (4° C)	011 - mm H ₂ O	-	0 - 3500 mm H ₂ O (4° C)
mm H ₂ O (4° C)	012 - mm H ₂ O	-	0 - 7000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	013 - mm H ₂ O	-	0 - 10000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	014 - mm H ₂ O	-	0 - 20000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	015 - mm H ₂ O	-	0 - 40000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	016 - mm H ₂ O	-	0 - 70000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	017 - mm H ₂ O	-	0 - 100000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	018 - mm H ₂ O	-	0 - 140000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	019 - mm H ₂ O	-	0 - 200000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	020 - mm H ₂ O	-	0 - 300000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	021 - mm H ₂ O	-	0 - 350000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	022 - mm H ₂ O	-	0 - 400000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	023 - mm H ₂ O	-	0 - 500000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	024 - mm H ₂ O	-	0 - 700000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	025 - mm H ₂ O	-	0 - 1000000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	026 - mm H ₂ O	-	0 - 1400000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	027 - mm H ₂ O	-	0 - 2000000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	028 - mm H ₂ O	-	0 - 3000000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	029 - mm H ₂ O	-	0 - 3500000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	030 - mm H ₂ O	-	0 - 4000000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	031 - mm H ₂ O	-	0 - 5000000 mm H ₂ O (4° C)
mm H ₂ O (4° C)	032 - mm H ₂ O	-	0 - 7000000 mm H ₂ O (4° C)

in Hg (32° F)

in Hg (32° F)	001 - in Hg	-	-30 x 0 in Hg (32° F)
in Hg (32° F)	002 - in Hg	-	-30 x 30 in Hg (32° F)
in Hg (32° F)	003 - in Hg	-	-30 x 60 in Hg (32° F)
in Hg (32° F)	004 - in Hg	-	-30 x 125 in Hg (32° F)
in Hg (32° F)	005 - in Hg	-	-30 x 200 in Hg (32° F)
in Hg (32° F)	006 - in Hg	-	-30 x 300 in Hg (32° F)
in Hg (32° F)	007 - in Hg	-	-30 x 400 in Hg (32° F)
in Hg (32° F)	008 - in Hg	-	-30 x 600 in Hg (32° F)
in Hg (32° F)	009 - in Hg	-	-30 x 1200 in Hg (32° F)
in Hg (32° F)	010 - in Hg	-	0 - 5 in Hg (32° F)
in Hg (32° F)	011 - in Hg	-	0 - 10 in Hg (32° F)
in Hg (32° F)	012 - in Hg	-	0 - 20 in Hg (32° F)
in Hg (32° F)	013 - in Hg	-	0 - 30 in Hg (32° F)
in Hg (32° F)	014 - in Hg	-	0 - 60 in Hg (32° F)
in Hg (32° F)	015 - in Hg	-	0 - 125 in Hg (32° F)
in Hg (32° F)	016 - in Hg	-	0 - 200 in Hg (32° F)
in Hg (32° F)	017 - in Hg	-	0 - 300 in Hg (32° F)
in Hg (32° F)	018 - in Hg	-	0 - 400 in Hg (32° F)
in Hg (32° F)	019 - in Hg	-	0 - 600 in Hg (32° F)
in Hg (32° F)	020 - in Hg	-	0 - 800 in Hg (32° F)
in Hg (32° F)	021 - in Hg	-	0 - 1000 in Hg (32° F)
in Hg (32° F)	022 - in Hg	-	0 - 1200 in Hg (32° F)
in Hg (32° F)	023 - in Hg	-	0 - 1500 in Hg (32° F)
in Hg (32° F)	024 - in Hg	-	0 - 2000 in Hg (32° F)
in Hg (32° F)	025 - in Hg	-	0 - 3000 in Hg (32° F)
in Hg (32° F)	026 - in Hg	-	0 - 4000 in Hg (32° F)
in Hg (32° F)	027 - in Hg	-	0 - 6000 in Hg (32° F)
in Hg (32° F)	028 - in Hg	-	0 - 8000 in Hg (32° F)
in Hg (32° F)	029 - in Hg	-	0 - 10000 in Hg (32° F)
in Hg (32° F)	030 - in Hg	-	0 - 12000 in Hg (32° F)
in Hg (32° F)	031 - in Hg	-	0 - 15000 in Hg (32° F)
in Hg (32° F)	032 - in Hg	-	0 - 20000 in Hg (32° F)

Bar			
Bar	001 - Bar	-	-1 x 0 Bar
Bar	002 - Bar	-	-1 x 1 Bar
Bar	003 - Bar	-	-1 x 2 Bar
Bar	004 - Bar	-	-1 x 4 Bar
Bar	005 - Bar	-	-1 x 7 Bar
Bar	006 - Bar	-	-1 x 10 Bar
Bar	007 - Bar	-	-1 x 14 Bar
Bar	008 - Bar	-	-1 x 20 Bar
Bar	009 - Bar	-	-1 x 40 Bar
Bar	010 - Bar	-	0 - 0.15 Bar
Bar	011 - Bar	-	0 - 0.35 Bar
Bar	012 - Bar	-	0 - 0.7 Bar
Bar	013 - Bar	-	0 - 1 Bar
Bar	014 - Bar	-	0 - 2 Bar
Bar	015 - Bar	-	0 - 4 Bar
Bar	016 - Bar	-	0 - 7 Bar
Bar	017 - Bar	-	0 - 10 Bar
Bar	018 - Bar	-	0 - 14 Bar
Bar	019 - Bar	-	0 - 20 Bar
Bar	020 - Bar	-	0 - 28 Bar
Bar	021 - Bar	-	0 - 35 Bar
Bar	022 - Bar	-	0 - 40 Bar
Bar	023 - Bar	-	0 - 50 Bar
Bar	024 - Bar	-	0 - 70 Bar
Bar	025 - Bar	-	0 - 100 Bar
Bar	026 - Bar	-	0 - 140 Bar
Bar	027 - Bar	-	0 - 200 Bar
Bar	028 - Bar	-	0 - 275 Bar
Bar	029 - Bar	-	0 - 350 Bar
Bar	030 - Bar	-	0 - 400 Bar
Bar	031 - Bar	-	0 - 500 Bar
Bar	032 - Bar	-	0 - 700 Bar

ata (kg/cm ²)			
ata (kg/cm ²)	001 - ata	-	-1 x 0 ata (kg/cm ²)
ata (kg/cm ²)	002 - ata	-	-1 x 1.0 ata (kg/cm ²)
ata (kg/cm ²)	003 - ata	-	-1 x 2.1 ata (kg/cm ²)
ata (kg/cm ²)	004 - ata	-	-1 x 4 ata (kg/cm ²)
ata (kg/cm ²)	005 - ata	-	-1 x 7 ata (kg/cm ²)
ata (kg/cm ²)	006 - ata	-	-1 x 10 ata (kg/cm ²)
ata (kg/cm ²)	007 - ata	-	-1 x 14 ata (kg/cm ²)
ata (kg/cm ²)	008 - ata	-	-1 x 21 ata (kg/cm ²)
ata (kg/cm ²)	009 - ata	-	-1 x 40 ata (kg/cm ²)
ata (kg/cm ²)	010 - ata	-	0 - 0.14 ata (kg/cm ²)
ata (kg/cm ²)	011 - ata	-	0 - 0.35 ata (kg/cm ²)
ata (kg/cm ²)	012 - ata	-	0 - 0.7 ata (kg/cm ²)
ata (kg/cm ²)	013 - ata	-	0 - 1 ata (kg/cm ²)
ata (kg/cm ²)	014 - ata	-	0 - 2.1 ata (kg/cm ²)
ata (kg/cm ²)	015 - ata	-	0 - 4 ata (kg/cm ²)
ata (kg/cm ²)	016 - ata	-	0 - 7 ata (kg/cm ²)
ata (kg/cm ²)	017 - ata	-	0 - 10 ata (kg/cm ²)
ata (kg/cm ²)	018 - ata	-	0 - 14 ata (kg/cm ²)
ata (kg/cm ²)	019 - ata	-	0 - 21 ata (kg/cm ²)
ata (kg/cm ²)	020 - ata	-	0 - 30 ata (kg/cm ²)
ata (kg/cm ²)	021 - ata	-	0 - 35 ata (kg/cm ²)
ata (kg/cm ²)	022 - ata	-	0 - 40 ata (kg/cm ²)
ata (kg/cm ²)	023 - ata	-	0 - 50 ata (kg/cm ²)
ata (kg/cm ²)	024 - ata	-	0 - 70 ata (kg/cm ²)
ata (kg/cm ²)	025 - ata	-	0 - 100 ata (kg/cm ²)
ata (kg/cm ²)	026 - ata	-	0 - 140 ata (kg/cm ²)
ata (kg/cm ²)	027 - ata	-	0 - 210 ata (kg/cm ²)
ata (kg/cm ²)	028 - ata	-	0 - 300 ata (kg/cm ²)
ata (kg/cm ²)	029 - ata	-	0 - 350 ata (kg/cm ²)
ata (kg/cm ²)	030 - ata	-	0 - 400 ata (kg/cm ²)
ata (kg/cm ²)	031 - ata	-	0 - 500 ata (kg/cm ²)
ata (kg/cm ²)	032 - ata	-	0 - 700 ata (kg/cm ²)