

# CANADA SENSORS TECHNOLOGY INC.



Manufacturer of Advanced Technology Pressure & Level Transmitters

CRN Approval ISO 9001:2015



## PRESSURE TRANSMITTER – PROCESS 3 General Purpose Service

Canada Sensors Technology Inc. offers an affordable solution with the Process 3 Pressure Transmitter without sacrificing quality or longevity of use.

### FEATURES, SPECIFICATIONS & TECHNICAL DATA

- ✓ 4 – 20 mA Two Wire
- ✓ 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
- ✓ Maximum Operating Temperature -40C to +95C
- ✓ Ingress Protection IP65
- ✓ Single seal compliant to ANSI/ISA-12.27.01.2003
- ✓ 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**



**Technical Specifications - Process 3**

**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:	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
Span Tolerance:	0.5% Full Scale Output
Output Load:	9 Volts typical @ 24 VDC 750 OHMS

Pollution Degree 4

Installation Category I

**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.
<b>NOTE: Silicone Oil Filled Sensors are a factory option for low pressure</b>	
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
<b>NOTE: ANSI Regulations dictate that NPT Thread should not to exceed 8,000 PSI @ +125C</b>	
Electrical Connection:	316SS Thread-on 1/2" MNPT Solid Conduit Fitting or w/ Aluminum XP Heads; Big-DIN 43650A or w/LED Display; Bendix Twist 6 Pin (PTIH-10-6P); M12
<b>NOTE: Big-DIN connection not approved for UV exposure</b>	

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

**Product Weights:**

	OZ	LBS	KG
Process 3 w/ 316SS Thread-on 1/2" MNPT Solid Conduit Fitting (2 ft Lead)	20.5	1.3	0.58
Process 3 w/ Big-DIN (DIN 43650A 90 Degree Hirschmann) or Bendix Twist 6 Pin (PTIH-10-6P) or M12	11.5	0.7	0.33
Process 3 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 3 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 3 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 3 w/ Big-DIN (DIN 43650A 90 Degree Hirschmann) w/ LED Display	19.5	1.2	0.55

**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



**Two Wired Smart LED SQUARE Display Unit**



**Product Nomenclature**

**MODEL: Pressure Transmitter - Process 3**

PN Example: A-B-C-D-E-F-G-H-I-J  
03-01-03-01-025-02-01-12-02-02:

Process 3 Transmitter, 4-20 mA, Zero and Span, Gauge (PSIG), 0 - 1500 PSI, 1/4" FNPT, 17-4phSS 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
<b>Model</b>	03	-	Process 3							
<b>Output</b>	01	-	4-20 mA							
	02	-	0-5 Volts							
	03	-	0-10 Volts							
	04	-	RS485 – Modbus							
	05	-	CANopen							
	06	-	J1939							
	07	-	USB							
	08	-	Ethernet							
<b>Calibration Adjustment</b>	03	-	Zero and Span							
<b>Pressure Reference</b>	01	-	Gauge (PSIG)							
	02	-	Absolute (PSIA)							
	03	-	Sealed Gauge							
<b>Pressure Range</b>	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							
<b>Process Connection</b>	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							
<b>Wetted Parts</b>	01	-	17-4phSS							
	02	-	316SS							
	03	-	Inconel-718							
	04	-	Titanium							
	05	-	Hastelloy-276							
<b>Electrical Connection</b>	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							
	91	-	Big-DIN (DIN 43650A 90 Degree Hirschmann) w/ LED Display							
<b>Environmental Treatment</b>	02	-	No Treatment							
<b>Accuracy</b>	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 H <sub>2</sub> O (60° F)		
in H <sub>2</sub> O (60° F)	001 - in H <sub>2</sub> O	- -400 x 0 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	002 - in H <sub>2</sub> O	- -400 x 400 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	003 - in H <sub>2</sub> O	- -400 x 800 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	004 - in H <sub>2</sub> O	- -400 x 1500 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	005 - in H <sub>2</sub> O	- -400 x 3000 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	006 - in H <sub>2</sub> O	- -400 x 4000 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	007 - in H <sub>2</sub> O	- -400 x 5000 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	008 - in H <sub>2</sub> O	- -400 x 8000 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	009 - in H <sub>2</sub> O	- -400 x 16500 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	010 - in H <sub>2</sub> O	- 0 - 60 H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	011 - in H <sub>2</sub> O	- 0 - 150 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	012 - in H <sub>2</sub> O	- 0 - 300 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	013 - in H <sub>2</sub> O	- 0 - 400 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	014 - in H <sub>2</sub> O	- 0 - 800 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	015 - in H <sub>2</sub> O	- 0 - 1500 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	016 - in H <sub>2</sub> O	- 0 - 3000 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	017 - in H <sub>2</sub> O	- 0 - 4000 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	018 - in H <sub>2</sub> O	- 0 - 5000 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	019 - in H <sub>2</sub> O	- 0 - 8000 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	020 - in H <sub>2</sub> O	- 0 - 10000 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	021 - in H <sub>2</sub> O	- 0 - 14000 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	022 - in H <sub>2</sub> O	- 0 - 16000 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	023 - in H <sub>2</sub> O	- 0 - 20000 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	024 - in H <sub>2</sub> O	- 0 - 30000 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	025 - in H <sub>2</sub> O	- 0 - 40000 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	026 - in H <sub>2</sub> O	- 0 - 50000 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	027 - in H <sub>2</sub> O	- 0 - 80000 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	028 - in H <sub>2</sub> O	- 0 - 100000 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	029 - in H <sub>2</sub> O	- 0 - 140000 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	030 - in H <sub>2</sub> O	- 0 - 160000 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	031 - in H <sub>2</sub> O	- 0 - 200000 in H <sub>2</sub> O (60° F)
in H <sub>2</sub> O (60° F)	032 - in H <sub>2</sub> O	- 0 - 300000 in H <sub>2</sub> O (60° F)

**mm H<sub>2</sub>O (4° C)**

mm H <sub>2</sub> O (4° C)	001 - mm H <sub>2</sub> O	-	-10000 x 0 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	002 - mm H <sub>2</sub> O	-	-10000 x 10000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	003 - mm H <sub>2</sub> O	-	-10000 x 20000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	004 - mm H <sub>2</sub> O	-	-10000 x 40000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	005 - mm H <sub>2</sub> O	-	-10000 x 70000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	006 - mm H <sub>2</sub> O	-	-10000 x 100000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	007 - mm H <sub>2</sub> O	-	-10000 x 140000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	008 - mm H <sub>2</sub> O	-	-10000 x 200000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	009 - mm H <sub>2</sub> O	-	-10000 x 400000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	010 - mm H <sub>2</sub> O	-	0 - 1400 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	011 - mm H <sub>2</sub> O	-	0 - 3500 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	012 - mm H <sub>2</sub> O	-	0 - 7000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	013 - mm H <sub>2</sub> O	-	0 - 10000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	014 - mm H <sub>2</sub> O	-	0 - 20000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	015 - mm H <sub>2</sub> O	-	0 - 40000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	016 - mm H <sub>2</sub> O	-	0 - 70000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	017 - mm H <sub>2</sub> O	-	0 - 100000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	018 - mm H <sub>2</sub> O	-	0 - 140000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	019 - mm H <sub>2</sub> O	-	0 - 200000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	020 - mm H <sub>2</sub> O	-	0 - 300000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	021 - mm H <sub>2</sub> O	-	0 - 350000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	022 - mm H <sub>2</sub> O	-	0 - 400000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	023 - mm H <sub>2</sub> O	-	0 - 500000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	024 - mm H <sub>2</sub> O	-	0 - 700000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	025 - mm H <sub>2</sub> O	-	0 - 1000000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	026 - mm H <sub>2</sub> O	-	0 - 1400000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	027 - mm H <sub>2</sub> O	-	0 - 2000000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	028 - mm H <sub>2</sub> O	-	0 - 3000000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	029 - mm H <sub>2</sub> O	-	0 - 3500000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	030 - mm H <sub>2</sub> O	-	0 - 4000000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	031 - mm H <sub>2</sub> O	-	0 - 5000000 mm H <sub>2</sub> O (4° C)
mm H <sub>2</sub> O (4° C)	032 - mm H <sub>2</sub> O	-	0 - 7000000 mm H <sub>2</sub> 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 6 0 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 <sup>2</sup> )			
ata (kg/cm <sup>2</sup> )	001 - ata	-	-1 x 0 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	002 - ata	-	-1 x 1.0 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	003 - ata	-	-1 x 2.1 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	004 - ata	-	-1 x 4 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	005 - ata	-	-1 x 7 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	006 - ata	-	-1 x 10 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	007 - ata	-	-1 x 14 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	008 - ata	-	-1 x 21 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	009 - ata	-	-1 x 40 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	010 - ata	-	0 - 0.14 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	011 - ata	-	0 - 0.35 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	012 - ata	-	0 - 0.7 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	013 - ata	-	0 - 1 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	014 - ata	-	0 - 2.1 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	015 - ata	-	0 - 4 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	016 - ata	-	0 - 7 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	017 - ata	-	0 - 10 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	018 - ata	-	0 - 14 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	019 - ata	-	0 - 21 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	020 - ata	-	0 - 30 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	021 - ata	-	0 - 35 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	022 - ata	-	0 - 40 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	023 - ata	-	0 - 50 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	024 - ata	-	0 - 70 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	025 - ata	-	0 - 100 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	026 - ata	-	0 - 140 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	027 - ata	-	0 - 210 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	028 - ata	-	0 - 300 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	029 - ata	-	0 - 350 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	030 - ata	-	0 - 400 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	031 - ata	-	0 - 500 ata (kg/cm <sup>2</sup> )
ata (kg/cm <sup>2</sup> )	032 - ata	-	0 - 700 ata (kg/cm <sup>2</sup> )