**Pressure Module (PM)**

### ACCURACY

#### psi (Gauge Pressure)

**30, 100, and 300 psi modules**

- 0 to 30% of Range: ± (0.0075% of Full Scale)
- 30 to 110% of Range: ± (0.025% of Reading)

Vacuum: For 30 and 100 psi

- ± (0.06% of Full Scale*)

For 300 psi

- ± (0.06% of Full Scale*) ± 1 LSD
- Full Scale = 14.5 psi

**1000, 3000, 10,000, and 15,000 psi modules**

- 0 to 30% of Range: ± (0.015% of Full Scale)
- 30 to 110% of Range: ± (0.05% of Reading)

Includes all effects of linearity, hysteresis, repeatability, temperature, and stability for one year.

All models indicate vacuum, but vacuum specification applies to 30, 100, and 300 psi modules only.

Not recommended for continuous use at high vacuum. Refer to XP2i-DP data sheet for gauges that are intended for continuous high vacuum use.

#### psiA (Pressure with BARO module)

**30 psi module**

- 0.200 to 14.500 psiA: ± 0.011 psiA
- 14.500 to 44.500 psiA: ± (0.025% of Reading)
- 0.003 psiA

**100 psi module**

- 0.200 to 14.500 psiA: ± 0.011 psiA
- 14.500 to 44.500 psiA: ± 0.011 psiA
- 44.500 to 114.500 psiA: ± (0.025% of Reading)

**300 psi module**

- 0.20 to 14.50 psiA: ± 0.01 psiA
- 14.50 to 104.50 psiA: ± 0.03 psiA
- 104.50 to 314.50 psiA: ± (0.025% of Reading)

**1000 psi module**

- 14.5 to 314.5 psiA: ± 0.2 psiA
- 314.5 to 1014.5 psiA: ± (0.05% of Reading)

**3000 psi module**

- 14.5 to 914.5 psiA: ± 0.5 psiA
- 914.5 to 3014.5 psiA: ± (0.05% of Reading)

**10,000 psi module**

- 15 to 3015 psiA: ± 2 psiA
- 3015 to 10,015 psiA: ± (0.05% of Reading)

**15,000 psi module**

- 15 to 4515 psiA: ± 3 psiA
- 4515 to 15,015 psiA: ± (0.05% of Reading)
DIFFERENTIAL PRESSURE MEASUREMENT UNCERTAINTIES WITH TARE

The Tare function can improve measurement uncertainties on two modules with the same full scale pressure range installed into one nVision Reference Recorder. Requires the use of an equalizing valve.

The following specifications apply to the measurement system with a logging interval of 1 second/reading:

<table>
<thead>
<tr>
<th>Full Scale Range of Both Sensors</th>
<th>psi</th>
<th>mbar</th>
<th>inH₂O</th>
<th>mmH₂O</th>
<th>% of DP Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>0.0005</td>
<td>0.04</td>
<td>0.014</td>
<td>0.4</td>
<td>or 0.025%</td>
</tr>
<tr>
<td>100</td>
<td>0.0015</td>
<td>0.10</td>
<td>0.04</td>
<td>1.0</td>
<td>or 0.025%</td>
</tr>
<tr>
<td>300</td>
<td>0.005</td>
<td>0.4</td>
<td>0.14</td>
<td>4.0</td>
<td>or 0.025%</td>
</tr>
<tr>
<td>1000</td>
<td>0.02</td>
<td>1.0</td>
<td>0.4</td>
<td>10.0</td>
<td>or 0.05%</td>
</tr>
<tr>
<td>3000</td>
<td>0.05</td>
<td>4.0</td>
<td>1.4</td>
<td>n/a</td>
<td>or 0.05%</td>
</tr>
<tr>
<td>10000</td>
<td>0.2</td>
<td>10.0</td>
<td>4.0</td>
<td>n/a</td>
<td>or 0.05%</td>
</tr>
<tr>
<td>15000</td>
<td>0.3</td>
<td>15.0</td>
<td>6.0</td>
<td>n/a</td>
<td>or 0.05%</td>
</tr>
</tbody>
</table>

Unit must be enabled in CrystalControl

DIFFERENTIAL PRESSURE MEASUREMENT UNCERTAINTIES WITHOUT TARE

The total nVision Reference Calibrator measurement uncertainty in the ΔP mode configuration will need to consider the uncertainties of both pressure modules. We recommend the module uncertainties to be combined with the preferred square root of the sum of the squares (or "root sum squares") method.

The following table lists the possible combinations of using Pressure Modules (PM) with different accuracy statements. The uncertainties reported below are without the use of the Tare feature, which will greatly improve your measurement uncertainty.

<table>
<thead>
<tr>
<th>Upper Pressure Module Uncertainties (of Static Line Pressure) (of Reading)</th>
<th>0.025%</th>
<th>0.05%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower Pressure Module Uncertainties (of Static Line Pressure) (of Reading)</td>
<td>0.025%</td>
<td>0.035%</td>
</tr>
<tr>
<td></td>
<td>0.05%</td>
<td>0.056%</td>
</tr>
</tbody>
</table>
**SENSOR**

**Wetted Materials:**
- (Wrench Tight) 316 stainless steel
- (Finger Tight) 316 stainless steel and Viton® (internal o-ring)

**Diaphragm Seal Fluid:** Silicone Oil

**Connection:** Crystal CPF™ Female

---

**BAROMETRIC REFERENCE (BARO)**

**Accuracy:** ± 0.00725 psi, ± 0.5 mbar

**Range:**
- 10.153 to 15.954 psiA,
- 700.0 to 1100.0 mbarA

**Units and Resolution:**
- psi ................. 0.001
- inHg .................. 0.001
- mmHg ................. 0.01
- mbar ................. 0.1

**Pressure Connection:** Cylindrical sensor fitting of 5.8mm OD. A flexible 4.8 mm [3/16"] ID tube is recommended to connect for calibration.

**Mounting:** Secured using a 3/8" 4-40 plastic screw.

---

All welded, with a permanently filled diaphragm seal.

Metal to metal cone seal; O-ring can be removed if necessary.

1/4" medium pressure tube system compatible with HIP LM4 and LF4 Series, Autoclave Engr SF250CX Male and Female Series.

CPF Adapters to NPT, BSP, and M20 available.

*U.S. Patent No. 8,794,677

Includes all effects of linearity, hysteresis, repeatability, temperature, and stability for one year.

Exposure to environmental extremes of temperature, shock, and/or vibration may warrant a more frequent recertification period.

Other units available depending on the installed modules.

Plastic non-conductive screw must be used to comply with hazardous location requirements.
Current, Voltage, & Switch Test Module (MA20)

Intended for use with a 4-20mA loop measurement. This module is also capable of measuring supply voltages and has an auxiliary fixed output for use in switch open/closure testing. Each MA20 module includes a super flexible silicone test lead kit (P/N 3952).

**CURRENT & VOLTAGE MEASUREMENT**

<table>
<thead>
<tr>
<th>Current (mA) Input</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Accuracy:</strong></td>
<td>± (0.015% of rdg + 0.002 mA)</td>
</tr>
<tr>
<td><strong>Range:</strong></td>
<td>0 to 55 mA (MA20)</td>
</tr>
<tr>
<td><strong>Max Allowable Current:</strong></td>
<td>93.3 mA</td>
</tr>
<tr>
<td><strong>Resolution:</strong></td>
<td>0.001 mA or 0.01%</td>
</tr>
<tr>
<td><strong>Units:</strong></td>
<td>mA, % 4-20, % 10-50</td>
</tr>
<tr>
<td><strong>Input Resistance:</strong></td>
<td>&lt; 17.2 Ω</td>
</tr>
<tr>
<td><strong>Voltage Burden @ 20mA:</strong></td>
<td>&lt; 0.35 V</td>
</tr>
<tr>
<td><strong>Voltage Burden @ 50mA:</strong></td>
<td>&lt; 0.86 V</td>
</tr>
<tr>
<td><strong>HART Resistance:</strong></td>
<td>250 Ω</td>
</tr>
<tr>
<td><strong>Connection:</strong></td>
<td>2mm jacks</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Voltage (VDC) Input</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Accuracy:</strong></td>
<td>± (0.015 % of rdg + 0.002 VDC)</td>
</tr>
<tr>
<td><strong>Range:</strong></td>
<td>0 to 28 VDC</td>
</tr>
<tr>
<td><strong>Max Allowable Voltage:</strong></td>
<td>30 VDC</td>
</tr>
<tr>
<td><strong>Resolution:</strong></td>
<td>0.001 VDC</td>
</tr>
<tr>
<td><strong>Units:</strong></td>
<td>VDC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Switch Test</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Switch Type:</strong></td>
<td>Dry Contact</td>
</tr>
<tr>
<td><strong>Closed State Resistance:</strong></td>
<td>&lt; 10 Ω</td>
</tr>
<tr>
<td><strong>Open State Resistance:</strong></td>
<td>&gt; 10 MΩ</td>
</tr>
</tbody>
</table>

Includes all effects of linearity, hysteresis, repeatability, temperature, and stability for one year.

For hazardous location product warnings, refer to the operation manual.

Inputs protected by a resettable fuse.

mA can be displayed as a percentage, where 0 to 100% corresponds to either 4 to 20 mA or 10 to 50 mA.

Jacks are compatible with safety sheathed banana plugs.

Includes all effects of linearity, hysteresis, repeatability, temperature, and stability for one year.

ATEX and IECEx Scheme Entity Parameters

The MA20 Module has these specific input entity parameters:

- \( U_i = 28 \) V
- \( U_o = 6.6 \) V
- \( I_i = 93.3 \) mA
- \( I_o = 4.45 \) mA
- \( P_i = 653.3 \) mW
- \( P_o = 7.34 \) mW
- \( C_i = 0.36 \) uF
- \( C_o = 0.5 \) uF
- \( L_i = 39.1 \) uH
- \( L_o = 12 \) uH

* Dependent on the supply to the terminals but shall not be greater than 0.5 uF

** Total cable inductance between all modules
Temperature Module (RTD100)

Calibrated for Pt100 RTD / PRT (100 Ohms at 0°C Platinum Resistance Temperature Detector) sensors conforming to DIN/IEC 60751 (or IEC751) with US, Euro, or Lab calibration curves. An RTD is not included, but each RTD100 includes P/N 3953 RTD Connection Kit.

TEMPERATURE MEASUREMENT

<table>
<thead>
<tr>
<th>Resistance Input</th>
<th>Accuracy:</th>
<th>± (0.015% of rdg + 0.02 Ω)</th>
<th>Includes all effects of linearity, hysteresis, repeatability, temperature, and stability for one year.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range:</td>
<td>0 – 400 Ohms range for use with 100 Ohm PRTs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resolution:</td>
<td>0.01 on all scales</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Units:</td>
<td>°C, K, °F, R, Ω</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TCRs:</td>
<td>0.003850 Ω/Ω/°C (IEC 60751), 0.003911 Ω/Ω/°C (US Industrial Std), 0.003926 Ω/Ω/°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wiring:</td>
<td>2-, 3-, 4-wire support</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connection:</td>
<td>M8 connector cable or terminal block</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The proper selection of the RTD sensing element is very important as the error associated with this device is the majority of the overall system measurement uncertainty. IEC 751 is the standard that defines the temperature versus resistance for 100Ω, 0.00385 Ω/Ω/°C platinum RTDs. IEC 751 defines two classes of RTDs: Class A and B. Class A RTDs operate over the -200 to 630°C range versus -200 to 800°C for the Class B elements. For example, the Class A uncertainty is about half that of the Class B elements as illustrated in the following table.

<table>
<thead>
<tr>
<th>Temperature °C</th>
<th>nVision Uncertainty</th>
<th>Class A Uncertainty</th>
<th>nVision + Class A Uncertainty</th>
<th>Class B Uncertainty</th>
<th>nVision + Class B Uncertainty</th>
</tr>
</thead>
<tbody>
<tr>
<td>-200</td>
<td>±Ω 0.02 ±°C 0.05</td>
<td>±Ω 0.24 ±°C 0.55</td>
<td>±Ω 0.24 ±°C 0.55</td>
<td>±Ω 0.56 ±°C 1.30</td>
<td>±Ω 0.56 ±°C 1.30</td>
</tr>
<tr>
<td>0</td>
<td>±Ω 0.04 ±°C 0.09</td>
<td>±Ω 0.06 ±°C 0.15</td>
<td>±Ω 0.07 ±°C 0.17</td>
<td>±Ω 0.12 ±°C 0.30</td>
<td>±Ω 0.12 ±°C 0.31</td>
</tr>
<tr>
<td>200</td>
<td>±Ω 0.05 ±°C 0.13</td>
<td>±Ω 0.2 ±°C 0.56</td>
<td>±Ω 0.21 ±°C 0.56</td>
<td>±Ω 0.48 ±°C 1.30</td>
<td>±Ω 0.48 ±°C 1.31</td>
</tr>
<tr>
<td>400</td>
<td>±Ω 0.06 ±°C 0.17</td>
<td>±Ω 0.33 ±°C 0.95</td>
<td>±Ω 0.33 ±°C 0.96</td>
<td>±Ω 0.79 ±°C 2.30</td>
<td>±Ω 0.79 ±°C 2.31</td>
</tr>
<tr>
<td>600</td>
<td>±Ω 0.07 ±°C 0.21</td>
<td>±Ω 0.43 ±°C 1.35</td>
<td>±Ω 0.44 ±°C 1.37</td>
<td>±Ω 1.06 ±°C 3.30</td>
<td>±Ω 1.06 ±°C 3.31</td>
</tr>
<tr>
<td>800</td>
<td>±Ω 0.08 ±°C 0.25</td>
<td>±Ω 0.52 ±°C 1.75</td>
<td>±Ω 0.53 ±°C 1.77</td>
<td>±Ω 1.28 ±°C 4.30</td>
<td>±Ω 1.28 ±°C 4.31</td>
</tr>
</tbody>
</table>

The RTD100 Module has these specific input entity parameters:

- \( U_i = 0 \) V
- \( U_o = 9.73 \) V
- \( I_i = 0 \) A
- \( I_o = 1.6642 \) A
- \( P_i = 0 \) W
- \( P_o = 1.1 \) W
- \( C_o = 0.5 \mu F\)
- \( L_o = 12 \mu H^*\)

*Total cable inductance between all modules.
**Operating Temperature**

Temperature Range: -20 to 50°C (-4 to 122°F)  
< 95% RH, non-condensing. No change in accuracy over operating temperature range. Gauge must be zeroed to achieve rated specification.  
Applies to all modules.

**Display**

- **Screen:** 255 x 160 pixel graphical display  
  LCD readable in sunlight with bright backlight.  
- **Display Rate:** 4 readings/second (standard)  
  up to 10 readings/second (recording)

**Power**

The nVision is Intrinsically Safe only if powered by one of the following battery types.

**ATEX/IECEx:**

<table>
<thead>
<tr>
<th>Approved Battery Type</th>
<th>Ta=</th>
<th>Marking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rayovac Max Plus 815</td>
<td>-20 to 50°C</td>
<td>Ex ia IIB T4 Ga</td>
</tr>
<tr>
<td>Duracell MN1500</td>
<td>-20 to 45°C</td>
<td>Ex ia IIB T3 Ga</td>
</tr>
<tr>
<td>Energizer E91, EN91</td>
<td>-20 to 50°C</td>
<td>Ex ia IIB T3 Ga</td>
</tr>
<tr>
<td>Duracell MN1500</td>
<td>-20 to 45°C</td>
<td>Ex ia IIB T3 Ga</td>
</tr>
</tbody>
</table>

**CSA:**

<table>
<thead>
<tr>
<th>Approved Battery Type</th>
<th>Ta=</th>
<th>Marking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rayovac Max Plus 815</td>
<td>-20 to 50°C</td>
<td>Class I, Division 1, Grp C, D T4</td>
</tr>
<tr>
<td>Duracell MN1500</td>
<td>-20 to 45°C</td>
<td>Class I, Division 1, Grp C, D T3B</td>
</tr>
<tr>
<td>Energizer E91</td>
<td>-20 to 50°C</td>
<td>Class I, Division 1, Grp C, D T3A</td>
</tr>
<tr>
<td>Energizer EN91</td>
<td>-20 to 50°C</td>
<td>Class I, Division 1, Grp C, D T3C</td>
</tr>
<tr>
<td>Duracell MN1500</td>
<td>-20 to 45°C</td>
<td>Class I, Division 1, Grp C, D T3A</td>
</tr>
</tbody>
</table>

- **4 x AA:** 200 hours, typical  
  Ultra Low Power: Up to 60 days, typical*

*2 installed modules, 1 reading per 5 minute recording interval, and 23°C ambient temperature.

Uses 4 alkaline AA (LR6) batteries. Use of backlight reduces operating time.  
For hazardous location product warnings, refer to the operation manual.
**DATA/COMMUNICATION**

Digital Interface: mini-USB

The mini USB will power the nVision with or without the battery pack installed.

For hazardous location product warnings, refer to the operation manual.

**DATALOGGING**

- Capacity: Approx. 1,000,000 data points*
- Storage Type: Non-volatile flash memory
- Fastest Interval: 10 per second
- Slowest Interval: 1 per hour

*Single Module Recording

Limit of 64 individual recordings.

The included CrystalControl software is compatible with Vista (SP 2), Windows 7 (SP 1), Windows 8.1 and Windows 10.

Produces csv, xls, pdf, or signed pdf files, and uses Excel template files (samples included) to automatically format and graph data.

**ENCLOSURE**

- Weight: 680 g (24.0 oz)
- Rating: IP66 and IP67
- Housing: Impact resistant injection molded
- Keypad and Labels: UV Resistant Polyester
- Mounting: M4 x 0.7 [8 mm (0.31") deep threaded insert mounting locations

Weight includes one pressure module, one RTD module, 4AA battery module, and protective boot.

Submersible to 1 m for 30 minutes [IEC 60529].

LCD protected from impact damage by 1.5 mm (0.06") thick polycarbonate lens.

Skydrol® compatible.

For hazardous location product warnings, refer to the operation manual.
STORAGE TEMPERATURE

Temperature Range: -40 to 75°C (-40 to 167°F)

Batteries should be removed if stored for more than one month.

SPECIAL FEATURES

The following requires the use of our free CrystalControl software:

- Averaging Screen: Averages all points in a recording run.
- Data Point Counter: Screen for counting the data points logged.
- Display Screens: Turn on and rearrange display screens.
- Estimated Recording Time: A CrystalControl calculation based on active screens and logging interval.
- Live PC Graph: During a recording, graph directly to your PC.
- Password Protect: Changes to configuration or userspan calibration factor(s).
- Pressure Switch Test: Using a PM and MA20, get deadband and state-change pressure.
- Remove: Unwanted pressure units.
- Run Tags: Create and enable run tags that will identify logging runs.
- Screen Numbers: Number each display screen to make writing procedures around the nVision easier.
- Secure Documents: Download into secure pdf documents for tamper proof records.
- Start-up Screen: Define a 32-character prompt which requires user acknowledgement at startup.
- User Defined Unit: Define and display any pressure units not included, or to use the gauge to display force, level or other pressure related parameters.

STANDARD DELIVERY

- nVision Recorder
- CD Manual
- ISO 17025 Accredited Calibration Certificate, NIST Traceable
- Soft Carrying Case P/N 5535
- Protective Boot P/N 3985
- Mini-USB Cable P/N 3951

COMPLEMENTARY PRODUCTS

Crystal Engineering offers a wide range of products that work with the nVision:

- Fittings that connect without tools, safely and without leaks
- Lightweight, super flexible high pressure hoses
- Fitting kits and adapters
- Pneumatic hand pumps
- Hydraulic hand pumps
- Portable pressure comparators
- Software, for the quickest way to calibrate pressure transmitters and gauges

CERTIFICATIONS

II 1G Ex ia IIB T4 Ga or T3
SIRA 09 ATEX 2008X

Ex ia IIB T4 Ga or T3
IECEx SIR 09.0053X

Exia Intrinsically Safe and Non-incendive for Hazardous Locations: Class I, Division 1, Groups C and D, Temperature Code T4/T3A/TCB/T3C. For hazardous location product warnings, refer to the operation manual.

nVision complies with the Electromagnetic Compatibility and the Pressure Equipment Directives.

nVision complies with the Australian Radiocommunications (Electromagnetic Compatibility) Standard 2008.

nVision is approved for use as a portable test instrument for Marine use and complies with Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Offshore Standards.

ACCESSORIES

- BARO Calibration Kit P/N 4547
- Magnetic Hanging Strap P/N 5177
- Waterproof Carrying Case P/N 2888
- RTD Terminal Block P/N 3953 (included with RTD100 module)
- Test Lead Kit P/N 3952 (included with MA20 Module)
AMETEK offers a variety of solutions for pressure generation and measurement. Our line of products for pressure generation includes everything from small pneumatic hand pumps to a precision, hydraulic pressure comparator capable of generating up to 15,000 psi / 1000 bar / 100 MPa.

All of our pumps may be ordered as part of a Pump System, complete with an nVision and delivered in a sturdy carrying case with custom insert.

Refer to the following page for a more detailed description of each pump system.

### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Model</th>
<th>Power</th>
<th>Upper Module</th>
<th>Lower Module</th>
<th>BARO Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>NV</td>
<td>4AA</td>
<td>PM</td>
<td>PM</td>
<td>No…. (omit)</td>
</tr>
</tbody>
</table>

- **Pressure:**
  - NV
- **Current, Voltage, and Switch:**
  - MA20
- **Temperature:**
  - RTD100
- **Blank Plate:**
  - BNKPLT

*If ordering an nVision with only one module installed, enter BNKPLT in the empty module slot.

### SAMPLE PART NUMBERS

**NV-4AA-30PSI-3KPSI-BARO**

- nVision with 30 psi pressure module (upper) and 3000 psi pressure module (lower) and a BARO module option.

**NV-4AA-RTD100-10KPSI-GWX-W**

- nVision with RTD100 temperature module (upper) and 10,000 psi pressure module (lower); a System G pump system; and a waterproof carrying case.

**Ordering a Pump System Only**

Any pump system, carrying case, and connection fittings for an nVision reference recorder may be ordered separately from the gauge. Enter NV-NONE followed by the Pump System part number and the Carrying Case option code.

**SAMPLE PART NUMBERS**

**NV-NONE-GWX-W**

- System G pump system with a waterproof carrying case.
## PUMP SYSTEMS OVERVIEW

<table>
<thead>
<tr>
<th>Pump System</th>
<th>Part Number</th>
<th>Pressure Range</th>
<th>Pneumatic</th>
<th>Hydraulic</th>
<th>Hand Pump</th>
<th>Bench Top</th>
<th>Included Pump</th>
<th>Case Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>System A</td>
<td>AX0</td>
<td>0 to 30psi / 2 bar</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>T-960-CPF</td>
<td>(or)</td>
</tr>
<tr>
<td></td>
<td>AHX</td>
<td>0 to 580 psi / 40 bar</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>T-970-CPF</td>
<td></td>
</tr>
<tr>
<td>System B</td>
<td>BX0</td>
<td>-25 inHg to 30 psi / -0.85 to 2 bar</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>T-965-CPF</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BHX</td>
<td>-27 inHg to 580 psi / -0.91 to 40 bar</td>
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<td>T-620-CPF</td>
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<td>DWX</td>
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<td>-27 inHg to 580 psi / -0.91 to 40 bar</td>
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<td>0 to 5000 psi / 350 bar</td>
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