TRACEABLE® PRESSURE/VACUUM METER INSTRUCTIONS

SPECIFICATIONS
Display: \( \frac{3}{4} \)” high 4-digit LCD
Range (Resolution):

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>3165</th>
<th>3166</th>
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</thead>
<tbody>
<tr>
<td>psi</td>
<td>–14.7 to 725 (1)</td>
<td>–14.7 to 29.00 (0.02)</td>
</tr>
<tr>
<td>bar</td>
<td>–1.0 to 50 (0.05)</td>
<td>–1.000 to 2.000 (0.002)</td>
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<tr>
<td>Meters/H2O</td>
<td>–10 to 509.5 (0.5)</td>
<td>–10.00 to 20.40 (0.02)</td>
</tr>
<tr>
<td>Atmospheres</td>
<td>–1.0 to 49.35 (0.05)</td>
<td>–1.000 to 1.974 (0.002)</td>
</tr>
<tr>
<td>mm/Hg</td>
<td>–736 to 37500 (50)</td>
<td>–736 to 1500 (2)</td>
</tr>
<tr>
<td>inch/Hg</td>
<td>–29 to 1476 (1)</td>
<td>–29.00 to 59.05 (0.05)</td>
</tr>
<tr>
<td>inch/H2O</td>
<td>–394 to 20050 (20)</td>
<td>–394 to 802 (1)</td>
</tr>
<tr>
<td>Kg/cm²</td>
<td>–1 to 59.95 (0.05)</td>
<td>–1.000 to 2.040 (0.002)</td>
</tr>
</tbody>
</table>

Accuracy: 1% full-scale plus 1 digit
Sampling Rate: Approximately 0.8 seconds
Features: Computer output, 40” cable
Auto power off, Carrying case

CONTROLS: Power, Hold, Sensor Type, MAX/MIN, Unit, Zero

OPERATIONS
Sensor Type Verification
1. Connect the pressure sensor to the meter, noting the model PS100 - 50BAR or PS100 - 2BAR.
2. Press the POWER button to turn the unit on.
3. Press the SENSOR TYPE button or until the display shows Bar or Bar. (see illustration)
4. Press the SENSOR TYPE button until the 2 or 50 (depending on your sensor) is displayed. Press the ZERO button to confirm the sensor type. The new setting has now been stored in your unit even if the power is turned off.
5. Turn the power off to complete the sensor type selection procedure.

Measuring
1. Turn the meter on by pressing the POWER button.
2. Select the desired unit measurement by pressing the UNIT button. The unit selected will be shown on the display. (Bar, Kg/cm², mm/Hg, m/H₂O, ATP (Atmosphere), Psi, in/Hg, in/ H₂O).
3. Zero adjustment - press and hold the ZERO button until the display reads “0”
4. Connect the pressure sensor port connection to the equipment you which to measure. Depending on the application, the user may wish to place Teflon tape or an appropriate sealant on the threads to make it gas tight. Turn the equipment on to apply pressure to the sensor. The meter will measure the pressure and display the value.
5. To hold a measurement on the display, press the HOLD button while a measurement is being taken. “HOLD” is shown in the upper left of display. To cancel the hold feature simply press the HOLD button a second time.
6. To record a measurement for both Memory Recall and Data Acquisition press the MAX/ MIN button while a measurement is being taken. To deactivate the record function, press the MAX/MIN button until “REC” is removed from the display.

Memory Recall
1. To record a reading press and hold the MAX/MIN button until “REC” is displayed. Record the reading.
2. Press the button again to recall the minimum and maximum readings. The maximum recorded value will be displayed. The letters “max” will also appear, indicating that this is the maximum or highest reading. A second press of the button will display the minimum reading. The letters “MIN” will appear indicating that this is the minimum or lowest reading.

NOTE: The data record function must be on to utilize the memory recall features. Once the MAX/MIN button has been pressed a second time to deactivate the data record function, the minimum and maximum values are no longer stored.

Computer Interface
This unit features computer output. A computer output socket is located on the top of the unit. To utilize this feature, connect the unit to a PC with an accessory Data Acquisition System. (See “Accessories” section)

ALL OPERATIONAL DIFFICULTIES
If this unit does not function properly for any reason, replace the battery with a new high-quality battery (see “Battery Replacement” section). Low battery power can occasionally cause any number of “apparent” operational difficulties. Replacing the battery with a new fresh battery will solve most difficulties.

BATTERY REPLACEMENT
Erratic readings, a faint display, no display or a flashing display are all indicators that the battery must be replaced. To replace the battery, use a coin to remove the battery cover located on the back of the unit. Replace the exhausted battery with a new 9-volt alkaline battery. Use an alkaline battery, NOT a regular or heavy-duty battery. Properly replace the battery and the battery cover. Replacement battery Cat. No. 1112.

ACCESSORIES

4325 Data Logger Complete DAS-4™ System captures and stores up to 8000 bytes (over 1000 readings) from all meters. Reading may be taken at intervals from 1 second to 99 hours. Stored readings may be downloaded to any PC and viewed. Can be read “as is” or imported to spreadsheets, databases, and statistical programs. Supplied with 36-inch serial cable with D9F computer plug, CD (Windows®), and four AA alkaline batteries. Size is 5 x 3 x 1 inches. Weight is 7 ounces.

3150 Humidity Sponge™ Indicator Desiccant (40 bags/pack)
3151 Humidity Sponge™ Regenerable Desiccant (40 bags/pack)
1112 Replacement battery (9V)

WARRANTY, SERVICE OR RECALIBRATION
For warranty, service or recalibration, contact:

CONTROL COMPANY
4455 Rex Road
Friendswood, Texas 77546 USA
Ph. 281-482-1714   Fax 281-482-9448
E-mail sales@control3.com   www.control3.com

Control Company is ISO 9001 Quality-Certified by DNV and ISO 17025 accredited as a Calibration Laboratory by A2LA.

Cat. No. 3165/3166
Traceable® Pressure/Vacuum Meter Instructions
92-3165-00
Rev. 2 040909

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