SPECIFICATIONS

DISPLAY: $^5/_8$" high 4-digit LCD

Range (Resolution):

Cat No.	**3165**
psi	-14.7 to 725 (1)
bar	-1.0 to 50 (0.05)
Meter/H_2O	-10 to 509.5(0.5)
Atmospheres	-1.0 to 49.35(0.05)
mm/Hg	-736 to 37500 (50)
inch/Hg	-29 to 1476 (1)
inch/H_2O	-394 to 20050 (20)
Kg/cm^2	-1 to 50.95 (0.05)

	3166
psi	-14.70 to 29.00 (0.02)
bar	-1.000 to 2.000 (0.002)
Meter/H_2O	-10.00 to 20.40 (0.02)
Atmospheres	-1.000 to 1.974 (0.002)
mm/Hg	-736 to 1500 (2)
inch/Hg	-29.00 to 59.05 (0.05)
inch/H20	-394 to 802 (1)
kG/cm2	-1.000 to 2.040 (0.002)

Accuracy:	1% full-scale plus 1 digit
Sampling Rate:	Approximately 0.8 seconds
Features:	Serial computer output, 72"
	cable Auto power off, Carrying case

Controls

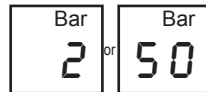|	
Power	Hold
Sensor Type	MAX/MIN
Unit	Zero

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 to display the stored sensor. If the display and the information written on the sensor match, you are ready to take measurements(see Measurement section). If the display and the information on the sensor do not match, perform the following steps to store the correct sensor type.

Sensor Type Selection

1. With the meter off, press and hold down the following buttons simultaneously: MAX/MIN, HOLD and SENSOR TYPE.
2. Continue to hold down buttons and press the POWER button. When all the LCD segments are lit up release the 3 buttons.
3. The display will now show the memorized sensor type. (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/cm^2, mm/Hg, m/H_2O, ATP (Atmosphere), Psi, in/Hg, in/H_2O.
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 data hold feature simply press the HOLD butta 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.

PC Serial Interface

This unit features computer serial 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

Cat. No.

4138   **Easy-Use™ Accessory Adaptor 115 VAC**

4136   **Data Acquisition System Accessory** Powerful and easy to use computer data capture/data logging program works with Traceable® Instruments with computer output. Records interval readings from 1 to 10,000 seconds; displays minimum/maximum readings; and utilizes an alarm mode that permits the user to be notified visually, audibly, and by email when an alarm is triggered. Data is stored to a file that can be printed in any report or spreadsheet format. Networking server/client capability allows the captured data to be monitored on a remote workstation and/or by email. It is designed to work with Windows®. Includes a CD, a 6-foot cable (supplied USB and serial connections) that plugs into instrument and computer. Accessory extension cables expand cable length to 300 feet.

4325   **Data Logger** Complete DAS–4™ System captures and stores up to 8000 bytes (over 1000 readings). Readings may be taken at intervals from 1 second to 99 hours. Stored readings may be downloaded to any PC and viewed. Data file can be read as-is or imported to spreadsheets, word processors, databases, and statistical programs. Supplied complete with 36-inch serial cable with D9F computer plug, disk (DOS and 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)**

TRACEABLE® PRESSURE/ VACUUM METER INSTRUCTIONS