



Expect Service

Radiation Products Design Inc

INSTRUCTIONS

RPD INFORMATION

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RPD PRODUCT INFORMATION

RPD is an authorized distributor

Item Number	Description
469-100	DPI 705 Handheld Digital Barometer



OPERATION

DO NOT ZERO the DPI 705 instrument.

The unit has been calibrated to absolute pressure. The pressure fitting is on top of instrument, do not cap or close off.

- A. Install batteries.
- B. Turn DPI 705 instrument on.
- C. Press UNITS key till "mmHg" millimeter of mercury appear or temperature in "C" centigrade appears.
- D. "abs" after instrument reading, stands for absolute.
- E. Turn DPI 705 instrument off.
- F. TIME OUT: If a key is not pressed within 10 minutes then the instrument times out and switches off. To disable this automatic time out, hold the LEAK key when switching on the pressure indicator

ZERO

RPDinc recommends that you never use the ZERO on the DPI 705 instruments that you purchase.

This feature is used for units that measure pressure that is referenced to atmosphere.

A zero should be performed on gauge and differential instruments before measuring pressure. To perform a zero, open all pressure ports to atmospheric pressure. Press the \approx and TARE keys together, the display briefly shows ZERO and the instrument calculates a new zero.

Note: A zero can only be performed on absolute pressure indicators if a vacuum is first applied to the pressure port.

LEAK TEST

RPDinc recommends that you do not use the LEAK TEST on the DPI 705 instruments that you purchase.

This is a feature allowing the user to test a vessel or his piping for leaks via the measurement of pressure decay over time. The standard test is 60 seconds long. To perform a leak test, press the LEAK key 3 times. The symbol \oplus flashes on the display with the number 60. To start the leak test press the LEAK key again.

The instrument counts down 60 seconds displaying the leakage at the end of the 60 second period. Press the LEAK key at any time during the leak test to quit and return to normal measurement.

TARE

RPDinc recommends that you never TARE the DPI 705 instruments that you purchase.

This feature allows the user to temporarily adjust the reference pressure to atmospheric, so that a PSIG (pound per square inch gauge) atmosphere measurement can be made instead of PSIA (pound per square inch absolute) measurement.

FILTER

RPDinc recommends that you do not FILTER the reading on DPI 705 instruments that you purchase.

If there is air fluctuation in the area where the DPI 705 is being used, the readings may jump around too much. The filter will perform an averaging function, and the readings will be more stable. The filter will not filter the temperature measurements.

ALARM

RPDinc recommends that you do not use the ALARM on the DPI 705 instruments that you purchase.

A single alarm can be set to operate when the displayed pressure value rises above the alarm setting. The alarm causes the display to flash and a beeper to sound for one minute. Pressing TARE and UNITS keys together displays the alarm value, pressing the FILTER key increases the alarm value, pressing the UNITS key decreases the alarm value. When the display shows the required alarm value, press the TARE key to set the alarm.

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