

DPI 705 Digital Pressure Indicator

User Guide

99 Washington Street
Melrose, MA 02176
Fax 781-665-0780
TestEquipmentDepot.com



Specification

Accuracy:

Combined non-linearity, hysteresis and repeatability $\pm 0.1\%$ full-scale

Temperature:

Operating range 15°F to 120°F

Storage range -5°F to 140°F

Maximum safe working pressure 2 x full-scale

Pressure connector 1/8" NPT female

Maximum torque 20 lb. in

Environmental NEMA 12 (IP54)

Electrical power supply 3 x 1.5 V alkaline size LR6 (AA)

Please consult the data sheet for additional specification.

Electrical safety EN 61010 as applicable

Electromagnetic compatibility EN50081-1 (emissions)

..... EN50082-2 (immunity)



This instrument meets the essential protection requirements of the relevant EEC directives.

Safety



This symbol, on the instrument, indicates that the user should refer to the user guide or manual.

Pressure

Do not apply pressure greater than the maximum safe working pressure.

Batteries

Remove batteries from the instrument immediately when discharged and before storage.

Dispose of batteries in accordance with local regulations and battery manufacturers' instructions.

When storing and transporting batteries make sure they cannot short circuit.

Cleaning

Clean the instrument with a damp cloth.

Calibration

Refer to the Calibration Instructions.

Software Version

This guide contains operating instructions for instruments with software version 1.02 onwards. Further changes to the instrument's software may require a change to the operating instructions and an issue number change to this guide.

Druck Incorporated, 4 Dunham Drive, New Fairfield, Connecticut 06812, U.S.A.

Tel: (203) 746 0400

Fax: (203) 746 2494

Email: sales@druckinc.com

Internet <http://www.druckinc.com>



Batteries are low, replace observing polarity shown on case



Filter applied (10 reading rolling average)



Displayed reading - maximum value

TARE

Tare applied



Displayed reading - minimum value

A

(flashing) Alarm - pressure value more than alarm setting



Displayed reading - leakage (per minute)



Leak test in progress (count down)

Switch Tare on or off (changes the display reading to zero)



Switch filter on or off



Change units (1 of 16 pressure units, °C or °F)



View maximum, minimum or perform leak test (max/min is reset at switch on)




Switch on or off

Operation


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.

LEAK TEST

To perform a leak test, press the LEAK key 3 times. The  symbol 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.

ZERO

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  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.

Alarm

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.