

Model DB-705 Precision Digital Barometer

The Model DB-705 is a portable digital barometer possessing a combination of handheld calculator size, digital display, high accuracy and wide choice of units, making it ideal as a portable absolute pressure reference.

The DB-705 features a variety of pressure scales to enable the operator to display the atmospheric pressure in a variety of units, including inHg, mmHg, mb, as the most widely used units in radiation therapy. It also displays ambient temperature in °C and °F with one degree resolution.

The DB-705 operates on three AA alkaline batteries for 300 hours. The Auto-Off automatic timeout prolongs battery life, but the feature can be disabled by holding the LEAK button while pressing the ON-OFF button. The UNITS button sequentially selects up to 16 units of measurement. The LEAK button sequentially selects maximum reading, minimum reading and initiates a 60-second countdown for leak test. The TARE button sets a zero reading for use as reference.

The rugged, ABS molded case has been designed for hand-held use, either in field applications or for use on the bench. The unit has an integral folding stand. A two-compartment soft carrying pouch is included.

Features:

- ▶ Employs the latest in pressure sensor technology
- ▶ Wide range: 0 to 1551 mmHg
- ▶ Wide selection of units
- ▶ ±0.1% of F.S. accuracy
- ▶ Lightweight, rugged, hand-held design



Specifications

Display:	5-digit LCD, 12.7 mm high, with additional unit legends, battery low symbol
Selectable units:	mmHg, mHg, inHg, mbar, bar, Pa, hPa, kPa, MPa, psi, inH ₂ O, ftH ₂ O, mH ₂ O, kgf/cm ² , °C, °F
Range, Resolution:	0 to 1551 mmHg, 0.1 mmHg 0 to 2068 mb, 0.1 mb 0 to 61 inHg, 0.001 inHg
Accuracy:	±0.1% of F.S., includes non-linearity, hysteresis, and repeatability
Altitude range:	infinite
Operating range:	-9 to 49° C
Power:	three 1.5 V AA alkaline cells
Battery life:	300 hours of use, selectable Auto-Off powers down after 10 minutes of inactivity
Dimensions:	19 x 8.9 x 3.5 cm (7.5 x 3.5 x 1.4 in)
Weight:	0.5 kg (1.1 lb)

