



**bar** 745  
High Accuracy Pressure Standard



The Model 745 Portable Transfer Standards provide the highest accuracy pressure measurements for laboratory and metrological applications. Digiquartz® Transducers cover 26 absolute and gauge pressure ranges up to 40,000 psi (276 MPa) with unsurpassed accuracy, reliability and stability. The simple, intuitive front-panel user interface and versatile functionality with the rearpanel RS-232 computer interface make the Model 745 the best choice for high performance pressure calibrations.

The Model 745 is portable, easy to use, and fully self-contained in a compact case. Turn it on and immediately read the pressure values in any of nine different user-selectable engineering units. All pressure readings are fully temperature compensated and linearized. Tare functions, pressure units, temperature units, resolution, sampling time, number of display digits, communication settings, baud rates, sensor address, and passwords can be selected via the front panel menu system. The choices for second line display include an analog pressure bar graph, sensor temperature, rate of pressure change, and stored text or external text. The unit can also be controlled via the bi-directional RS-232 interface. Free software is included to read and log data via the RS-232 port.

The unit is either continuously powered from its AC adapter or for up to 20 hours from four AA cells. Pressure readings and an overpressure signal can be displayed remotely with the optionally available Model 715 display.

Certified to the ISO 9001 International Quality Standard.

**APPLICATION AREAS**

- Metrology
- Process Control
- Transfer Standards
- Reference Barometers
- Laboratory Instrumentation

**PERFORMANCE\***

Parts-per-billion Resolution  
0.008% Full Scale accuracy

**RANGES**

- 20 Absolute Pressure Ranges from:**  
0-15 psia (0.10 MPa) to 0-40,000 psia (276 MPa)
- 6 Gauge Pressure Ranges from:**  
0-15 psig (0.10 MPa) to 0-200 psig (1.38 MPa)

**FEATURES**

**Intuitive front panel menu system**  
**Two-line display with menu selectable functions:**

- Taring
- Engineering units
- Pressure bar graph
- Sensor temperature
- Password protection
- Rate of pressure change
- Resolution and sampling speed
- Adjustable number of display digits
- User choice of stored or external text
- Rack or panel mount capability
- Enhanced RS-232 command set
- 110V or 220V AC adapter power
- Multiple remote display capability
- Free configuration and logging software
- 20 hours battery operation (4 AA size)

**QUALITY AND STANDARDS**

- NIST traceable
- Market-leading 5-year limited warranty
- 3-year stability warranty on barometers

\*Products defined by specification control drawing