

# MODEL 745

# High Accuracy Pressure Standard

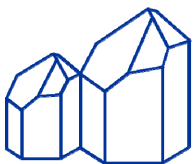


The Model 745 Portable Transfer Standards provide the highest accuracy pressure measurements for laboratory and metrological applications. Digiquartz® Transducers cover 26 absolute and gauge pressure ranges up to 40,000 psi (276 MPa) with unsurpassed accuracy, reliability and stability. The simple, intuitive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

Paroscientific is certified to the ISO 9001 International Quality Standard. Our quality system and commitment to excellence ensure customers of outstanding products and services. We offer a market-leading five year limited warranty on all Digiquartz® Transducers with the first two years covered at 100%.



**Paroscientific, Inc.**  
**Digiquartz® Pressure 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)

## APPLICATION AREAS

Metrology  
Process Control  
Transfer Standards  
Reference Barometers  
Laboratory Instrumentation

## 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

# Model 765

# Portable Pressure Standards



The Model 765 Transfer Standards provide the highest accuracy pressure measurements for portable field applications. The integral Digiquartz® Transducers cover absolute pressure ranges up to 40,000 psi (276 MPa) and gauge pressure ranges up to 200 psig (1.38 MPa).

The Model 765 is portable, easy to use, and fully self-contained in a rugged, compact case. Turn it on and immediately read the pressure values in any of nine user-selectable engineering units. Front panel selections include taring, resolution, sampling time, number of display digits, engineering units, max-min readings, alarm points, and communication parameters. Choices for the second line display include an analog pressure bar graph, sensor temperature, rate of pressure change, stored text or user-defined external text.

An internal logger can automatically store over 390,000 high-resolution data points. The Model 765 can also be controlled via the bi-directional RS-232 or USB interface. The unit is powered by an AC Adapter (included), or by the internal, rechargeable 150 hour battery. Free configuration and logging software is included.

The Model 765 is the best choice for accurate, reliable, and stable pressure measurements.

## PERFORMANCE\*

0.008% Full Scale Accuracy  
Resolution better than one part-per-million

## 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)

## APPLICATION AREAS

Metrology  
Aerospace  
Meteorology  
Oceanography  
Process Control  
Energy Exploration  
Laboratory Instrumentation

## FEATURES

Simple, intuitive front panel menu system  
Tare, Hold and Programmable Fast Key  
Front panel data entry and display  
Password-protected menu system  
Two-line backlit display— Menu selectable functions  
Taring  
Engineering units  
Pressure bar graph  
Sensor temperature  
Resolution and sampling speed  
Maximum and minimum pressure  
Average pressure, rate, trend and scatter functions  
Free configuration and logging software  
Internal data logging - over 390000 data points  
Enhanced remote control and command  
User-defined outputs  
USB and RS-232 interfaces  
High and low pressure alarm points  
Internal rechargeable battery or AC power  
100-240 VAC universal power adapter  
Battery status LED and display indicator  
150 hours rechargeable battery operation

## QUALITY AND STANDARDS

NIST traceable  
Market-leading 5-year limited transducer warranty

\*Products defined by specification control drawing



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