

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, gauge and differential pressure ranges up to 40000 psi (276 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 390000 high-resolution data points. The Model 765 can also be controlled via the bi-directional RS-232 or USB interface with a new, improved command set. The unit is powered by AC Adapter (included), or by the internal, rechargeable 150 hour battery. Free software is included. Future upgrades are easily downloaded to the Model 765 firmware.

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

PERFORMANCE

0.0001% Resolution
0.008% Full Scale Accuracy

RANGES

19 Absolute ranges 0 to 40000 psia (276 MPa)
6 Gauge ranges 0 to 200 psig (1.38 MPa)
3 Differential ranges 0 to 18 psid (0.12 MPa)

APPLICATION AREAS

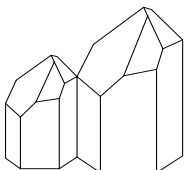
Metrology
Aerospace
Meteorology
Oceanography
Process Control
Energy Exploration
Laboratory Instrumentation

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
Easy upgrades to embedded software

QUALITY AND STANDARDS

ISO 9001:2000 Quality System
NIST traceable - CE compliant
Market-leading 5-year limited transducer warranty



Paroscientific, Inc.
Digiquartz® Pressure Instrumentation



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PERFORMANCE

Accuracy $\pm 0.008\%$ of full scale or better.^{(1) (2)}

CHARACTERISTICS

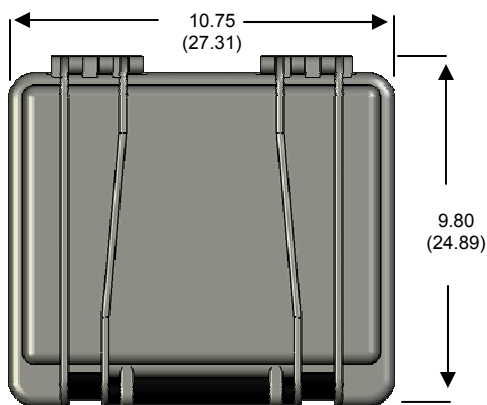
Weight 8.5 lb (3.86 kg) Typical
 Power Requirements 100-240 VAC, 47-63 Hz
 (Operates up to 150 hours on internal rechargeable battery)

ENVIRONMENTAL

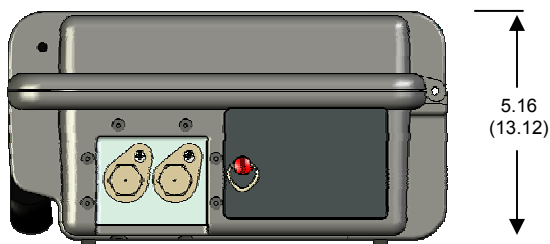
Overpressure 1.2 times full scale⁽³⁾
 Operating Temperature Range -20 °C to +50 °C (-4 °F to +122 °F)⁽⁴⁾
 0 °C to +40 °C (32 °F to +104 °F)⁽⁵⁾

ACCESSORIES

Accessories include High Performance Pressure Port (765-16B only), USB cable, manual, power adapter, menu card and software CD.



Dimensions are in inches - parenthesized dimensions are in centimeters



Differential Pressure Ranges			
Pressure Range		Model	Part Number
psid	MPa		
0-3	0-0.02	765-3D	1100-026
0-6	0-0.041	765-6D	1100-027
0-18	0-0.123	765-18D	1100-028



Paroscientific, Inc.
 4500 148th Ave. N.E.
 Redmond, WA USA 98052
 Web: www.paroscientific.com
 E-mail: support@paroscientific.com
 Tel: (425) 883-8700
 Fax: (425) 867-5407

ORDERING INFORMATION

Absolute Pressure Ranges			
Pressure Range		Model	Part Number
psia	MPa		
0-15 ⁽⁷⁾	0-0.1	765-15A	1100-001
7.2-16 ⁽¹⁾⁽⁷⁾⁽⁸⁾	0.05-0.11	765-16B	1100-010
0-23 ⁽⁷⁾	0-0.16	765-23A	1100-002
0-30 ⁽⁷⁾	0-0.21	765-30A	1100-003
0-45 ⁽⁷⁾	0-0.31	765-45A	1100-004
0-100 ⁽⁷⁾	0-0.69	765-100A	1100-005
0-200 ⁽⁷⁾	0-1.38	765-200A	1100-006
0-300 ⁽⁷⁾	0-2.07	765-300A	1100-007
0-400 ⁽⁷⁾	0-2.76	765-400A	1100-008
0-500 ⁽⁷⁾	0-3.45	765-500A	1100-009
0-1000	0-6.89	765-1K	1100-017 ⁽⁶⁾
0-2000	0-13.8	765-2K	1100-018 ⁽⁶⁾
0-3000	0-20.7	765-3K	1100-019 ⁽⁶⁾
0-6000	0-41.4	765-6K	1100-020 ⁽⁶⁾
0-10000	0-68.9	765-10K	1100-021 ⁽⁶⁾
0-15000	0-103	765-15K	1100-022 ⁽⁶⁾
0-20000	0-138	765-20K	1100-023 ⁽⁶⁾
0-30000 ⁽²⁾	0-207	765-30K	1100-024 ⁽⁶⁾
0-40000 ⁽²⁾	0-276	765-40K	1100-025 ⁽⁶⁾

Gauge Pressure Ranges			
Pressure Range		Model	Part Number
psig	MPa		
0-15	0-0.1	765-15G	1100-011
0-22	0-0.15	765-22G	1100-012
0-30	0-0.21	765-30G	1100-013
0-100	0-0.69	765-100G	1100-014
0-150	0-1.03	765-150G	1100-015
0-200	0-1.38	765-200G	1100-016

- (1) Accuracy relative to the primary standard includes resolution, hysteresis, non-repeatability and non-conformance.
- (2) Accuracy of differentials, absolute 30K and 40K models are 0.02% of full scale or better.
- (3) Model 765-500A is 1.0 times full scale. Model 765-30K and Model 765-40K are 1.1 times full scale.
- (4) Low absolute (≤ 500 psia) and gauge ranges operating temp. range.
- (5) High absolute and differential ranges operating temp. range.
- (6) Add "-0" to part number for oil-filled units.
- (7) One free zero adjustment included within 2 years of shipment.
- (8) More information is available on Model 765-16B datasheet.