



The Model 760 Portable Field Standards provide the highest accuracy pressure measurements for process, metrology and meteorology applications. Typical application accuracy of 0.01% of full scale or better is achieved as a traveling standard and in laboratory conditions. Desirable characteristics include 0.5" character, 6-digit LCD display, 1×10^{-8} resolution, no warm-up time, and high reliability. The standards are easy to interface with computer systems for remote data acquisition and instrument control. They are available with Digiquartz® Transducers in 19 absolute, 6 gauge and 3 differential pressure ranges.

The Model 760 is portable, easy to use, and fully self-contained in a weather-proof rugged 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, resolution, sampling rate, communication settings, baud rates, sensor address can be selected via the RS-232 interface.

The unit is powered from an internal sealed battery for up to 200 hours, or continuously from an on-board AC/DC battery charger.

Software is included to read and log data via the RS-232 port.

PERFORMANCE

0.0001% Resolution
0.01% Full Scale accuracy or better

RANGES

19 Absolute Pressure Ranges
0-15 psia (0.1 MPa) to 0-40000 psia (276 MPa)
6 Gauge Pressure Ranges
0-15 psig (0.1 MPa) to 0-200 psig (1.38 MPa)
3 Differential Pressure Ranges
0-3 psid (0.02 MPa) to 0-18 psid (0.12 MPa)

FEATURES

Taring
RS-232 Interface
200 hours battery operation
Simple, user-friendly front panel
Weather-proof rugged case
Configuration and logging software

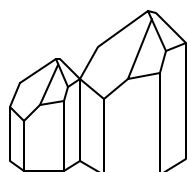
QUALITY AND STANDARDS

NIST traceable
ISO 9001 quality system
High stability and reliability
Market-leading 5-year limited warranty
3-year stability warranty on barometers

APPLICATION AREAS

Metrology
Aerospace
Meteorology
Oceanography
Process Control
Energy Exploration
Reference Barometers
Laboratory Instrumentation

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%. In addition, barometers have a 3-year stability warranty.



Paroscientific, Inc.
Digiquartz® Pressure Instrumentation





Model 760

Portable Pressure Standard

PERFORMANCE

Accuracy Better than 0.01% of Full Scale.^{(1) (2)}

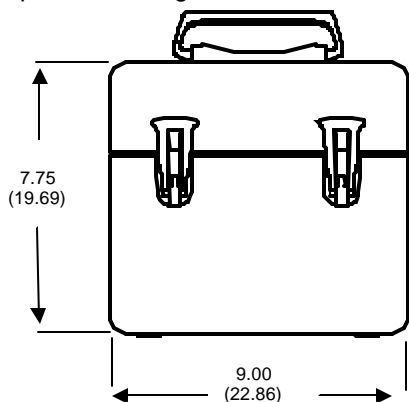
CHARACTERISTICS

Weight 7.5 lb (3.4 kg) Max
Power Requirements 115 or 220 VAC (Up to 200 hours on internal rechargeable battery)

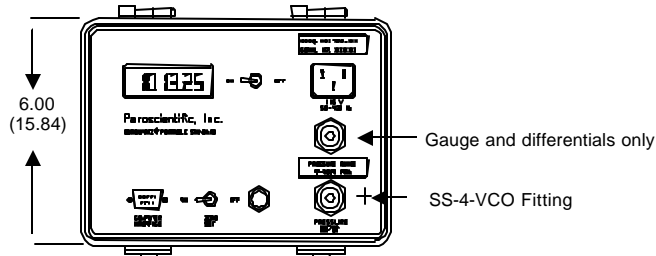
ENVIRONMENTAL

Overpressure 1.2 times Full Scale except
1.1 times Full Scale for 30K & 40K
1.0 times Full Scale for 500A

Operating Temperature Range 0 °C to +40 °C (+32 °F to +104 °F)



Model 760 Side View



Model 745 Top View

Differential Pressure Ranges			
psid	MPa	Model	Part Number ⁽³⁾
0-3	0-0.02	760-3D ⁽²⁾	1370-001 -002
0-6	0-0.041	760-6D ⁽²⁾	1371-001 -002
0-18	0-0.123	760-18D ⁽²⁾	1372-001 -002

Dimensions are in inches - parenthesized dimensions are in centimeters



Technology

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ORDERING INFORMATION

Absolute Pressure Ranges			
psia	MPa	Model	Part Number ^{(3) (4)}
0-15 ⁽⁵⁾	0-0.1	760-15A	1107-001 -002
11-16 ⁽¹⁾⁽⁵⁾	0.08-0.11	760-16B ⁽¹⁾	1107-101 -102
0-23 ⁽⁵⁾	0-0.16	760-23A	1107-003 -004
0-30 ⁽⁵⁾	0-0.21	760-30A	1107-005 -006
0-45 ⁽⁵⁾	0-0.31	760-45A	1107-007 -008
0-100 ⁽⁵⁾	0-0.69	760-100A	1107-009 -010
0-200 ⁽⁵⁾	0-1.38	760-200A	1107-011 -012
0-300 ⁽⁵⁾	0-2.07	760-300A	1107-013 -014
0-400 ⁽⁵⁾	0-2.76	760-400A	1107-015 -016
0-500 ⁽⁵⁾	0-3.45	760-500A	1107-051 -052
0-1000	0-6.89	760-1K	1107-047 -048
0-2000	0-13.8	760-2K	1107-033 -034
0-3000	0-20.7	760-3K	1107-035 -036
0-6000	0-41.4	760-6K	1107-037 -038
0-10000	0-68.9	760-10K	1107-039 -040
0-15000	0-103	760-15K	1107-041 -042
0-20000	0-138	760-20K	1107-043 -044
0-30000	0-207	760-30K ⁽²⁾	1107-045 -046
0-40000	0-276	760-40K ⁽²⁾	1107-063 -064

Gauge Pressure Ranges			
psig	MPa	Model	Part Number ^{(3) (4)}
0-15	0-0.1	760-15G	1107-019 -020
0-22	0-0.15	760-22G	1107-057 -058
0-30	0-0.21	760-30G	1107-021 -022
0-100	0-0.69	760-100G	1107-023 -024
0-150	0-1.03	760-150G	1107-053 -054
0-200	0-1.38	760-200G	1107-025 -026

- (1) Accuracy of barometer is ± 0.08 hPa. Stability is better than 0.1 hPa per year. 3-year stability warranty.
- (2) Accuracy of differentials, absolute 30K and 40K models are better than 0.02% full scale.
- (3) Use first dash number for 115 VAC input, second group for 220 VAC input.
- (4) For oil-filled units above 30 psi, add - 0 to part number.
- (5) One free zero adjustment included within 2 years of shipment.