



Portable Precision Barometer S900018

- Accuracy of ± 0.004 inHg (± 0.15 mbar) absolute
 - Ranges to 103 inHg (3.5 bar) absolute
 - RS232 output
- Multiple pressure scales and aeronautical units

This is a portable, handheld battery powered precision barometer. The fundamental sensor technology employed within this instrument is the Druck resonant pressure transducer (RPT). This vibrating element has a calibration stability of better than 100 ppm per year.





Technical Specifications

S900018

Pressure Measurements

Operating Ranges:	22 to 34 inHg (750 to 1150 mbar) absolute 1 to 38 inHg (35 to 1300 mbar) absolute 1 to 77 inHg (350 to 2600 mbar) absolute 1 to 103 inHg (35 to 3500 mbar) absolute
Maximum Safe Working Pressure:	118 inHg (4000 mbar) absolute
Pressure Media:	Compatible with non-corrosive gases Insensitive to media density
Readout and Display:	999999 capability LCD digits 0.54 in (13.6 mm) high with additional 16 text characters
Display Overload:	Capable nominal of 110% full scale (FS) for each range
Resolution:	0.0003 inHg (0.01 mbar)
Response:	2 readings per second nominal on digital display
Operating Modes:	Local pressure (QFE) Sea level pressure (QFF) from user set height Altitude above user set datum
Process Features:	Maximum/Minimum, tare and programmable filter available in all operating modes
Pressure Units:	24 pressure units plus altitude in feet (ft) or meters (m)

Performance

Accuracy:	+/-0.02% FS
Stability:	Better than 100 ppm per annum
Temperature Range:	
Operating:	15°F to 120°F (-10°C to 50°C)
Storage:	-40°F to 160°F (-40°C to 70°C)
Safety:	
Electrical and mechanical safety:	EN61010
EMC emissions:	EN50081-1
EMC immunity:	EN50082-1
Certification:	CE Marked
Position Effect:	Negligible
Power Supply:	Three each 1.5 V alkaline AA batteries for 20 hours nominal continuous operation. Programmable power down prolongs battery life. Battery low indicated by display symbol. Optional rechargeable NiCad batteries and external power adapter/charger unit available.
Communication Interface:	RS 232 via six-way LEMO socket

Physical

Pressure Connection:	Accepts 1/4 in OD / 5/32 in ID tubing (6mm OD / 4 mm ID)
Weight:	1.1 lb (0.5 kg) nominal