

# TECHNICAL DATA SHEET

## Pressure

The 2000 Series of pressure instruments offer a wide range of hand-held manometers. Easy to operate, reliable and built to last, the 2000 Series has been developed in order to meet the performance and cost demands of today's markets.

The 2000 Series of pressure instruments offers the widest range of hand-held manometers world-wide. New innovative functions designed to make the operator's job easier set new standards in pressure measurements.

### Pressure Scale

	20x0P	20x1P	20x2P	20x3P	20x5P	20x6P	20x7P	20x8P
mbar	0 to 1999 µbar + 0.00 to 25.00 mbar	0.00 to 19.99 mbar + 0.0 to 130.0 mbar	0.0 to 199.9 mbar + 0 to 1999 mbar	0 to 1999 mbar + 0.00 to 7.00 bar	0.0 to 199.9 mbar + 0 to 1999 mbar	0 to 1999 mbar + 0.00 to 10.00 bar	0.0 to 199.9mbar + 0 to 500mbar	0.0 to 199.9mbar + 0 to 1000mbar
Pa	0.0 to 199.9 Pa + 0 Pa to 2500 Pa	0.00 to 13.00 kPa + 0 to 1320 mm	0.00 to 19.99 kPa + 0.0 to 199.9 kPa	0.0 to 199.9 kPa + 0 to 700 kPa	0.00 to 19.99 kPa + 0.0 to 199.9 kPa	0.0 to 199.9 kPa + 0 to 1000 kPa	0.00 to 19.99kPa + 0.0 to 50.0kPa	0.00 to 19.99kPa + 0.0 to 100.0kPa
in H <sub>2</sub> O	0.00 to 10.05" + 0.0 to 255.3 mm	0.00 to 52.28" + 0 to 1320 mm	0.0 to 199.9" + 0 to 804"	0.0 to 199.9" + 0 to 2815"	0.0 to 199.9" + 0 to 804"	0.0 to 199.9" + 0 to 4022"	0.0 to 199.9" + 0 to 201"	0.0 to 199.9" + 0 to 402"
m H <sub>2</sub> O	0.00 to 19.99 mm + 0.0 to 255.3 mm	0.0 to 199.9 mm + 0 to 1320 mm	0.00 to 20.43 m + 0.0 to 71.5 m	0.00 to 19.99 m + 0.0 to 71.5 m	0.00 to 20.43 m + 0.0 to 71.5 m	0.00 to 19.99 m + 0.0 to 102.2 m	0.00 to 5.11 m + 0.0 to 102.2 m	0.00 to 10.22m + 0.0 to 102.2 m
in Hg	0.00 to 0.73" + 0.0 to 18.75 mm	0.00 to 3.83" + 0.0 to 19.99 mm	0.00 to 59.00" + 0.0 to 150.0 cm	0.00 to 19.99" + 0.0 to 206.7"	0.00 to 59.00" + 0.0 to 150.0 cm	0.00 to 19.99" + 0.0 to 295.3"	0.00 to 14.75" + 0.0 to 37.5cm	0.00 to 29.5" + 0.0 to 75.0cm
m Hg	0.00 to 18.75 mm + 0.0 to 19.99 mm	0.00 to 19.99 mm + 0.0 to 97.5 mm	0.00 to 19.99 cm + 0.0 to 150.0 cm	0.00 to 5.25 m + 0.0 to 150.0 cm	0.00 to 19.99 cm + 0.0 to 150.0 cm	0.00 to 7.50m + 0.0 to 37.5cm	0.00 to 19.99cm + 0.0 to 37.5cm	0.00 to 19.99cm + 0.0 to 75.0cm
PSI	0.00 to 0.36 psi + 0.00 to 19.99 psi	0.00 to 1.88 psi + 0.00 to 29.00 psi	0.00 to 29.00 psi + 0.0 to 101.5 psi	0.00 to 19.99 psi + 0.00 to 29.00 psi	0.00 to 29.00 psi + 0.00 to 29.00 psi	0.00 to 19.99 psi + 0.00 to 145.0 psi	0.00 to 7.25psi + 0.00 to 14.50psi	0.00 to 14.50psi + 0.00 to 14.50psi




### Key Features

- ✓ Pressure ranges from 1mbar to 10bar (0.40218 inH<sub>2</sub>O to 4021.8 inH<sub>2</sub>O)
- ✓ Pressure range configurable from 10 to 500bar with an external transducer (2024P & 2084P only)\*
- ✓ Logging and leak testing
- ✓ Autoranging displays for precise readings
- ✓ Selectable auto switch-off
- ✓ 2 year warranty
- ✓ Overrange protection
- ✓ IP67 (1m depth for 30 mins) BSI Cert 229/000132
- ✓ Negative and positive reading

\*We can supply a range of suitable pressure transducers according to the pressure range. Transducer accuracy needs to be combined with instrument for total accuracy.

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## Common Specification

Operating Temperature	0°C to +50°C/+14°F to 122°F (ambient)
Battery Type	Two AA or equivalent cells (not supplied)
Battery Life	Typically 200 hours
Low Battery Check	 symbol appears on display
Display	12.7mm / 0.5" custom L.C.D.
Overrange/Underrange	'Out' shows on display
Environmental Specifications	IP67 (as std) with hose connected
Auto Switch-Off Time	12 minutes
Dimensions	155 x 67 x 40mm/6.1 x 2.6 x 1.6"
Weight	180g/6.4oz
<b>Instrument accuracies</b>	
From -10°C to +50°C/+14°F to +122°F	0.15%rdg +0.15%fs +1 digit 0.3%rdg +0.3%fs + 1 digit (-Ve Pressures)



Pressure Application

The overall performance of the instrument is obtained by combining the stated accuracy and any uncertainty due to the measurement process

## 2000P Series Option Table

	2000P	2001P	2007P	2008P	2002P	2003P	2005P	2020P	2021P	2027P	2028P	2022P	2023P
Operating Range	25mbar	130mbar	500mbar	1 bar	2bar	7bar	2bar absolute	25mbar	130mbar	500mbar	1 bar	2bar	7bar
Overrange	350mbar	750mbar	1bar	2 bar	4bar	10bar	4bar absolute	350mbar	750mbar	1bar	2 bar	4bar	10bar
Backlight	*	*	*	*	*	*	*	*	*	*	*	*	*
Out of range	*	*	*	*	*	*	*	*	*	*	*	*	*
Zeroing	*	*	*	*	*	*	*	*	*	*	*	*	*
Hold	*	*	*	*	*	*	*	*	*	*	*	*	*
Smoothing								*	*	*	*	*	*
Units of Pressure								*	*	*	*	*	*
Range Lock								*	*	*	*	*	*
Max/Min								*	*	*	*	*	*
Zeroing Absolute							*						
Averaging													
Leak Testing													
Logging													

	2026P	2024P	2025P	2080P	2081P	2087P	2088P	2082P	2083P	2086P	2084P	2085P
Operating Range	0 to 10bar	† External transducer	2bar	25mbar	130mbar	500mbar	1bar	2bar	7bar	0 to 10bar	† External transducer	2bar
Overrange	21bar	*	4bar absolute	350mbar	750mbar	1bar	2bar	4bar	10bar	21bar	*	4bar absolute
Backlight	*	*	*	*	*	*	*	*	*	*	*	*
Out of range	*	*	*	*	*	*	*	*	*	*	*	*
Zeroing	*	*	*	*	*	*	*	*	*	*	*	*
Hold	*	*	*	*	*	*	*	*	*	*	*	*
Smoothing	*	*	*	*	*	*	*	*	*	*	*	*
Units of Pressure	*	*	*	*	*	*	*	*	*	*	*	*
Range Lock	*	*	*	*	*	*	*	*	*	*	*	*
Max/Min	*	*	*	*	*	*	*	*	*	*	*	*
Zeroing Absolute												*
Averaging				*	*	*	*	*	*	*	*	*
Leak Testing				*	*	*	*	*	*	*	*	*
Logging				*	*	*	*	*	*	*	*	*