

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 | 0.00 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 H₂O | 0.00 to 10.05" | 0.00 to 52.28" | 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 H₂O | 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 + 0.00 to 19.99 m | 0.00 to 19.99 m + 0.0 to 71.5 m | 0.00 to 20.43 m + 0.00 to 19.99 m | 0.00 to 19.99 m + 0.0 to 102.2 m | 0.00 to 5.11m + 0.00 to 19.99m | 0.00 to 10.22m + 0.00 to 19.99m |
| in Hg | 0.00 to 0.73" | 0.00 to 3.83" | 0.00 to 59.00" + 0.0 to 206.7" | 0.00 to 19.99" + 0.0 to 206.7" | 0.00 to 59.00" + 0.0 to 295.3" | 0.00 to 19.99" + 0.0 to 295.3" | 0.00 to 14.75" + 0.00 to 19.99cm | 0.00 to 29.5" + 0.00 to 19.99cm |
| m Hg | 0.00 to 18.75 mm + 0.0 to 97.5 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 + 0.0 to 101.5 psi | 0.00 to 1.88 psi + 0.0 to 145.0 psi | 0.00 to 29.00 psi + 0.0 to 101.5 psi | 0.00 to 19.99 psi + 0.0 to 101.5 psi | 0.00 to 29.00 psi + 0.0 to 145.0 psi | 0.00 to 19.99 psi + 0.0 to 145.0 psi | 0.00 to 7.25psi + 0.0 to 14.50psi | 0.00 to 14.50psi + 0.0 to 14.50psi |



Key Features

- ✓ Pressure ranges from 1mbar to 10bar (0.40218 inH₂O to 4021.8 inH₂O)
- ✓ 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.


Digitron
www.digitron.co.uk

Version 1.3

series **2000**

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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 |
| Instrument accuracies | |
| 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 | | | | | | | | | | | | |