

DIGITAL MANOMETER

TECHNICAL DATA

FEATURES

- Any piece of equipment that relies upon a liquid or gas to operate requires a certain amount of pressure to function smoothly
- Operates on the principle of fluid displacement by measuring and comparing the weights of fluids or gases between two different pressures
- Measures gauge pressure (a measure of pressure in psi that is zero-referenced against ambient air pressure, so it is equal to absolute pressure minus atmospheric pressure) and differential pressure (a measure of the difference between two pressures)
- Not suitable for absolute pressure measurement
- Two inlet ports, each to be connected to one of the volumes whose pressure is to be monitored
- 11 selectable pressure units: bar, mmHg, ozin², kgcm², psi, inH₂O, kPa, ftH₂O, inHg, cmH₂O, mbar
- Primary LCD readout displays current pressure reading while secondary readout displays real time clock
- Includes 2 x connection hoses (4mm x 6mm (ID x OD)), battery, hard carrying case, and user manual

SPECIFICATIONS

Range: R3030: 0~30 psi, 830 inH₂O, 2068 mbar, 2.10 kg/cm²

R3100: 0~100 psi, 2768 inH₂O, 6895 mbar, 7.03 kg/cm²

Resolution:

Unit	Range	Model R3030	Model R3100
psi	1.000000	0.02	0.1
inH ₂ O	27.680517	0.5	2
bar	0.068948	0.002	0.004
mbar	68.948253	2	4
mmHg	51.712016	1	3
ozin ²	16.000844	0.3	1
kg/cm ²	0.070309	0.002	0.004
kPa	6.894859	0.2	0.4
ftH ₂ O	2.306719	0.04	0.2
cmH ₂ O	70.309000	2	4



SPECIFICATIONS

Accuracy: 0.3% of full scale at 25°C

Response Time: 0.5 seconds

Compensated Temp. Range: 0~50°C

Power Supply: Single 9V battery

Dimensions: 72 x 182 x 30mm

Weight: Approx. 220 g (with battery)

ORDERING INFORMATION

R3030Digital Manometer, ±30psi

R3100Digital Manometer, ±100psi

CERTIPG2NIST Calibration Certificate

R3030-NIST..... Manometer & NIST

R3100-NIST..... Manometer & NIST