

## 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, ozin<sup>2</sup>, kgcm<sup>2</sup>, psi, inH<sub>2</sub>O, kPa, ftH<sub>2</sub>O, inHg, cmH<sub>2</sub>O, 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 inH<sub>2</sub>O, 2068 mbar, 2.10 kg/cm<sup>2</sup>

**R3100:** 0~100 psi, 2768 inH<sub>2</sub>O, 6895 mbar, 7.03 kg/cm<sup>2</sup>

**Resolution:**

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

**R3030** .....Digital Manometer, ±30psi

**R3100** .....Digital Manometer, ±100psi

**CERTIPG2** .....NIST Calibration Certificate

**R3030-NIST**..... Manometer & NIST

**R3100-NIST**..... Manometer & NIST

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