

CL8010 Digital-Manometer

Meßbereich 0...2000 mbar umschaltbar auf 0...200 kPa, Auflösung 1 mbar bzw. 1 kPa. Maximaler Druck 4000 mbar, Linearität 1,5%. 19 mm hohe LED - Anzeige.

Dieses Manometer ersetzt herkömmliche Manometer mit der gefährlichen Quecksilberfüllung. Es kann sehr einfach und schnell zur Druckmessung z. B. bei den Gasgesetzen (Boyle-Mariotte, Gay-Lussac, usw.) eingesetzt werden.

An der Frontseite des Gerätes ist ein Schlauchanschluß herausgeführt, über den entsprechende Geräte oder Glasteile mit einer Schlauchtülle 4 - 6 mm Ø angeschlossen werden können.

Netzanschluß 220...240 V, 50 Hz.



The **M+S DIGITAL MANOMETER** is developed in order to avoid further use of mercury-manometers, and can therefore be used to measure any kind of vacuum/pressure including also normal daily barometric pressure, as it when turned on shows the normal pressure as starting point.

The technical specifications are as follows:

Measuring principle:	Piezo-electric crystal
Measuring range:	0 - 2000 mB / 0 - 200 kPa. Max. +- 4 Bar. Precision +- 1,5% f.s.
Connection to transducer:	4mm plastic tube
Recorder output:	1V/1000mB
Output reading:	14mm LED-display
Powersupply:	220V/50Hz

The **M+S DIGITAL MANOMETER** can be connected via the 4mm plastic tube to any kind of instrument supplying pressure/vacuum within the range of the instrument.

However, the electronic transducer is somewhat sensible towards gases (incl. air) with a high rate of moisture, as this might damaged the piezo-crystal.

Therefore, if you wish to measure i.e. the Pressure of Saturated Steam directly on i.e. a conical bulb filled with water, you are adviced to use a capsule of silicagel to dry out the steam before it reach the piezo-electrical crystal.

This capsule can easily be made of a 10mmø plastic tube app. 10cm long, filled with silicagel and closed with tube connectors. This "capsule" can easily be mounted on your "measuring tube".