

Magwell Digital Gauge Model MDT210 Series is a powerful Microprocessor based Intelligent Pressure Sensor, which provide high Accuracy and Stability, to calibrate Pressure & Differential Pressure Transmitters, Pressure Gauges, Pressure Switch & other pressure instruments.

Model MDT210 not only has stable performance and fast response time, but also supports a variety of pressure conversion units. This model is well suited for monitoring and displaying air pressure and water pressure. The current pressure is displayed by the pressure sensor as a value as well as, as a bar graph simultaneously. As an additional function, the pressure sensor offers a peak function. This function shows the operator the maximum and minimum pressure measured on the pressure sensor at the push of a button.

Thanks to the large display of 2.5" almost all measured values can be read directly. The response time of the pressure sensor is < 50 ms. The connection of the pressure sensor to the process is via a 1/4" NPT connection. Typical applications include suction control, leak testing or pressure monitoring.

Typical Applications

- ◆ Suction Control
- ◆ Leak Testing
- ◆ Pressure Monitoring

Standard Features

- ◆ Measuring range up to 2900 psi, 200 bar
- ◆ Response time < 50 ms
- ◆ Scaled bar graph
- ◆ Battery powered 3 x 1.5V AAA
- ◆ Large 2.5" display
- ◆ Adjustable backlight
- ◆ 1.4" NPT connection thread
- ◆ Overload Capacity : 150%
- ◆ Units : kg/cm², inHg, inH₂O, Pa, kPa, MPa, bar, mbar, psi, mmHg, mmH₂O




Specification

Measuring Range	0 ... 2900 psi, 0 ... 200 bar
Resolution	1.45 psi, 0.1 bar
Accuracy	0.25% FSO
Pressure	Relative
Over Pressure	1.5 times
Measurable Media	Gases, water
Response Time	< 50 ms
Process Medium	0 ~ 80 °C
Housing Material	Metal
Measurement Units	Mpa, bar, Kpa, mH ₂ o, kg / cm ² , psi, mmH ₂ o, in.WC, mbar
Protection Class	IP56
Diameter of Display	2.5"
Dimensions (without sensor)	Ø80 x 50 mm / 3.1 x 2 in
Pressure Connection	1/4" NPT
Power Supply	3 x 1.5V AAA batteries
Environmental Conditions	-10 ... 60°C / 14 ... 140°F, < 80% RH
Weight Approx.	276 g / < 1 lb (without batteries)



Model Selection Guide

Description	Coding
1 Model	
MDT210	MDT210
2 Range & Resolution	
-1 ~ 3 Bar, 0.001	1
0 ~ 6 Bar, 0.001	2
0 ~ 10 Bar, 0.01	3
0 ~ 25 Bar, 0.01	4
0 ~ 100 Bar, 0.01	5
0 ~ 200 Bar, 0.01	6
4 Process Connection	
1/4" NPT (M)	2MN
1/4" BSP (M)	2MB
1/2" NPT (M)	4MN
1/2" BSP (M)	4MB
M20*1.5	3MN

Optional Accessories		
S.No	Item	Magwell Model
1	High Pressure Hose 	MDT-H
2	4 in 1 Pressure Manifold 	MDT-4M
3	5 Ports Manifold 	MDT-5M

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