

Magwell Digital Test Gauge Model MDT1000 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 MDt1000 not only has stable performance and fast response time, but also supports a variety of pressure conversion units for ease of calibration of Gauges, Sensors or Transmitters.

Standard Features

- ◆ Pressure Ranges of upto 2,500 bar (36,000 psi)
- ◆ Dual Readouts
- ◆ Data Logging of upto 40 files, with 40 readings per file
- ◆ RS232 interface to connect with computer for data logging
- ◆ Backlit Display
- ◆ Rechargeable Battery with AC adapter
- ◆ Advanced Temperature Compensation
- ◆ Units : kg/cm², inHg, inH₂O, Pa, kPa, MPa, bar, mbar, psi, mmHg, mmH₂O



Specification

Pressure Range :	Upto 2,500 bar (36,000 psi)
Accuracy :	± 0.02% Full Scale ± 0.05% Full Scale ± 0.1% Full Scale (>15,000 psi)
Ambient Temperature :	-10 ~ +50° C
Operating Temperature :	-10 ~ +50° C
Storage Temperature :	-20 ~ +70° C
Humidity :	<95%
Units :	kg/cm ² , inHg, inH ₂ O, Pa, kPa, MPa, bar, mbar, psi, mmHg, mmH ₂ O
Display :	Single Line, 6 Digits LCD with Backlight
Connection :	M20*1.5, 1/4NPT, 1/4BSP, 1/2NPT, 1/2BSP Male
Pressure Types :	Gauge Pressure, Absolute Pressure, Differential Pressure & Compound Pressure
Power Supply :	7.4V Rechargeable Lithium battery, AC adapter
Compliance :	CE marked
Weight :	0.8 Kg

Accessories Included

110/220V External Power Adapter
 Calibration Certificate
 Carry Case
 User Manual

Table 1

Pressure Ranges				
Code	Bar (psi)	Media	Accuracy (% FS)	Burst Pressure
P1	-1.0 (-15)	Gas	± 0.02	3x
P2	1 (15)	Gas. Liquid	± 0.02	3x
P3	7 (100)	Gas. Liquid	± 0.02	3x
P4	20 (300)	Gas. Liquid	± 0.02	3x
P5	35 (500)	Gas. Liquid	± 0.02	3x
P6	70 (1,000)	Gas. Liquid	± 0.02	3x
P7	140 (2,000)	Gas. Liquid	± 0.02	3x
P8	200 (3,000)	Gas. Liquid	± 0.02	3x
P9	350 (5,000)	Gas. Liquid	± 0.02	3x
P10	700 (10,000)	Gas. Liquid	± 0.02	3x
P11	1,000 (15,000)	Gas. Liquid	± 0.02	2x
P12	1,600 (25,000)	Gas. Liquid	± 0.1	1.5x
P13	2,000 (30,000)	Gas. Liquid	± 0.1	1.5x
P14	2,500 (36,000)	Gas. Liquid	± 0.1	1.5x

Table 3

Compound Pressure Ranges				
Code	Bar (psi)	Media	Accuracy (% FS)	Burst Pressure
C1	± 0.16 (2)	Gas	± 0.02	3x
C2	± 0.35 (5)	Gas	± 0.02	3x
C3	± 0.7 (10)	Gas	± 0.02	3x
C4	± 1 (15)	Gas	± 0.02	3x
C5	-1~2 (-15~30)	Gas	± 0.02	3x
C6	-1~7 (-15~100)	Gas. Liquid	± 0.02	3x
C7	-1~20 (-15~300)	Gas. Liquid	± 0.02	3x

Table 2




Absolute Pressure Ranges				
Code	Bar (psi)	Media	Accuracy (% FS)	Burst Pressure
A1	0.35 (5)	Gas	± 0.1	3x
A2	1 (15)	Gas	± 0.1	3x
A3	2 (30)	Gas	± 0.1	3x
A4	3.5 (50)	Gas	± 0.1	3x
M5	7 (100)	Gas. Liquid	± 0.1	3x
M6	20 (300)	Gas. Liquid	± 0.1	3x
M7	70 (1,000)	Gas. Liquid	± 0.1	3x
M8	200 (3,000)	Gas. Liquid	± 0.1	3x
M9	350 (5,000)	Gas. Liquid	± 0.1	3x

Table 4

Differential Pressure Ranges				
Code	mbar	Media	Static Pressure	Burst Pressure
D1	± 2.5	Gas	± 10 psi	100x
D2	± 5.0	Gas	± 10 psi	100x
D3	± 10	Gas	± 10 psi	50x
D4	± 25	Gas	± 10 psi	20x
D5	± 50	Gas	± 10 psi	20x
D6	± 75	Gas	± 10 psi	20x
D7	± 160	Gas	± 10 psi	3x
D8	± 350	Gas	± 50 psi	3x
D9	± 700	Gas	± 50 psi	3x

Model Selection Guide

Description	Coding
1 Model	
MDG1000	
2 Accuracy	
± 0.02% Full Scale	2
± 0.05% Full Scale	5
± 0.1% Full Scale (>15,000 psi)	1
3 Pressure Range	
Gauge Pressure (Refer Table 1)	
Absolute Pressure (Refer Table 2)	
Differential Pressure (Refer Table 3)	
Compound Pressure (Refer Table 4)	
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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Rev-05.01