

Magwell Digital Test Gauge Model MDT2000H 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 MDT2000H not only has stable performance and fast response time, but also supports a variety of pressure conversion units, but also provide excitation voltage of 24 VDC to power Sensors or Transmitters during Calibration.

## Standard Features

- ◆ Pressure Ranges of upto 2,500 bar (36,000 psi)
- ◆ HART Communication Capability
- ◆ Power Transmitters without the need for External Supply
- ◆ 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
- ◆ Measure mA : Range (-30~30)mA; Accuracy  $\pm 0.01\%$ RD
- ◆ Measure V : Range (-30~30)V; Accuracy  $\pm 0.01\%$ RD
- ◆ Units : kg/cm<sup>2</sup>, inHg, inH<sub>2</sub>O, Pa, kPa, MPa, bar, mbar, psi, mmHg, mmH<sub>2</sub>O



## Specification

Pressure Range :	Upto 2,500 bar (36,000 psi)
Accuracy :	$\pm 0.02\%$ Full Scale $\pm 0.05\%$ Full Scale $\pm 0.1\%$ 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 <sup>2</sup> , inHg, inH <sub>2</sub> O, Pa, kPa, MPa, bar, mbar, psi, mmHg, mmH <sub>2</sub> O
Display :	Dual Line, 6 Digits LCD with Backlight
Measure Current :	Range (-30~30) mA; Accuracy $\pm 0.01\%$ RD
Measure Voltage :	Range (-30~30) V; Accuracy $\pm 0.01\%$ RD
24V DC Output :	(24 $\pm$ 0.5) V, max 50mA
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  
 Test Leads 1.5 meter, 2 Nos  
 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
<b>1 Model</b>	
MDT2000H	
<b>2 Accuracy</b>	
± 0.02% Full Scale	2
± 0.05% Full Scale	5
± 0.1% Full Scale (>15,000 psi)	1
<b>3 Pressure Range</b>	
Gauge Pressure (Refer Table 1)	
Absolute Pressure (Refer Table 2)	
Differential Pressure (Refer Table 3)	
Compound Pressure (Refer Table 4)	
<b>4 Process Connection</b>	
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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**Magwell LLC**  
**537 Cajundome Boulevard, Suite 111**  
**Lafayette, LA 70506**

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