

## Battery powered Digital Test gauge

### Model: MDG20

#### Applications

- Calibration laboratories
- Test bench / gauge repair facilities
- Hydraulics and pneumatics
- Test measurement and validation
- Service tasks
- Process industry: Chemical/petro chemical, power stations, food and beverage, offshore oil rigs, pulp and paper, environmental technology, machine building and general plant construction

#### Special features

- Measuring ranges from -100 ... 100kpa 0... 1000 bar
- Accuracy  $\leq \pm 0.1\%$   $\pm 0.05$  option
- Temperature indicator -10 ... 50
- Temperature compensation
- Multi selectable pressure units
- Excellent shock and vibration resistance
- Option: Rotatable instrument head, backlighting
- Option: Intrinsically safe
- Scale ranges up to 0 ... 1,600 bar

#### Description

##### Robust, precise digital indicator

The robust stainless steel case and the battery power enable a flexible operation in various applications and industries. For a precise and quick on-site reading of a pressure value, a digital indicator is the ideal solution. The bar graph display and drag pointer function integrated into the display, as well as retrievable Min/Max peak values, enable effective analysis of the measuring point.

##### Customised installation

Through its rotatable case, the model MDG-20 can be easily adapted to local conditions. The backlighting also provides easy readability of the display in poor lighting conditions.



## Description

- Accuracy 0.1% of full scale option 0.05% of full scale
- Sensor Thin film (<7 Mpa) or Ceramic strain gauge(0.6 Mpa to7 MPa ranges)
- Case Material 304 St. steel
- Case Diameter 100 mm (4") nominal
- Connection Bottom
- Display 5-digit LCD ; 16mm high
- Pressure Units M Pa , kPa, bar, m bar, psi, kgf/ cm2, mmHg, mH2o
- Measurement Res. 14 bit
- Sampling Time 0.1 second
- Process Connection 316 St. steel 1/2", 1/4", M20\*15 and other
- Pressure Ranges Positive, negative and compound
- Over Pressure 2\*full scale
- Power Supply 3 V cell button battery (Cr240) or usb powered
- Communication method RS485/USB
- Battery operating time Continuous working for 3600 hour
- Acquisition speed (1-10)/sec
- Temperature accuracy A level
- Medium Temperature -10...50°C
- Ambient Temperature -10...50°C
- Temp. Compensation -10...50°C
- Environ. Protection Ip54

code	bar	Range (kPa)	mBAR	mmHg	mH2O	Mpa	Kgf/cm <sup>2</sup>
M1	-1 ... 0	-100 ... 0	-1000 ... 0	-750.0671 ... 0	-10197.162 ... 0	-0.1 ... 0	-1.019 ... 0
M2	-1 ... +1	-100 ... +100	-1000 ... 1000	-750.0671 ... +750.0671	+10197.162 ... -10197.162	-0.1 ~ +0.1	-1.019 ... +1.0197
M3	-1 ... +3	-100 ... +300	-1000 ... 3000	-750.0671 ... +2250.185	+10197.162 ... +30591.48	-0.1 ~ +0.3	-1.019 ... +3.051
M5	-1 ... +5	-100 ... +500	-1000 ... 5000	-750.0671 ... +3750.380	-10197.162 ... +50985.81	-0.1 ~ +0.5	-1.019 ... +5.0985
M7	-1 ... +9	-100 ... +900	-1000 ... 9000	-750.0671 ... +6750.557	-10197.162 ... +91774.45	-0.1 ~ +0.9	-1.019 ... +9.1773
M00	0 ... 0.2	0 ... 20	0 ... 200	0 ... +150.123	0... +2093.43	0 ~ +0.02	0 ... +0.2039
M01	0 ... 0.4	0 ... 40	0 ... 400	0 ... +300.0247	0... +4078.86	0 ~ 0.04	0 ... +0.4078
M02	0 ... 0.6	0 ... 60	0 ... 600	0 ... +450.037	0... +6118.29	0 ~ 0.06	0 ... +0.6118
M03	0 ... 1	0 ... 100	0 ... 1000	0 ... +750.0617	0... +10197.16	0 ~ 0.1	0 ... +1.0197
M04	0 ... 2	0 ... 200	0 ... 2000	0 ... +1500.123	0... +20394.32	0 ~ 0.2	0 ... +2.0394
M05	0 ... 4	0 ... 400	0 ... 4000	0 ... +3000.247	0... +40788.64	0 ~ 0.4	0 ... +4.0788
M06	0 ... 6	0 ... 600	0 ... 6000	0 ... +4500.37	0... +61182.97	0 ~ 0.6	0 ... +6.1182
M07	0 ... 10	0 ... 1000	0 ... 10000	0 ... +7500.617		0 ... 1	0 ... +10.197
M08	0 ... 20	0 ... 2000	0 ... 20000	0 ... +15001.23		0 ... 2	0 ... +20.394
M09	0 ... 30	0 ... 3000	0 ... 30000	0 ... +22501.85		0 ... 3	0 ... +30.591
M10	0 ... 40	0 ... 4000	0 ... 40000	0 ... +30002.47		0 ... 4	0 ... +40.788
M11	0 ... 60	0 ... 6000	0 ... 60000	0 ... +45003.7		0 ... 6	0 ... +60.182
M12	0 ... 100	0 ... 10000		0 ... +75006.17		0 ... 10	0 ... +101.97
M13	0 ... 250	0 ... 25000				0 ... 25	0 ... +254.92
M14	0 ... 400	0 ... 40000				0 ... 40	0 ... +407.88
M15	0 ... 600	0 ... 60000				0 ... 60	0 ... +611.82
M16	0 ... 1000					0 ... 100	0 ... +1019.7

For special range, please use the code XX and mention the range in the order



**MDG20 Digital Test Gauges**

ORDERING CODE	Example: MDG20	M10	4	T	2	N	S	AT	I	WA	Note
<b>Range</b>											
Select a range from the table		M10									
<b>Dial Size</b>											
2 - 63 mm(2.12")											
4 - 100mm(4")			4								
6 - 160mm(6")											
<b>Process Connection Type</b>											
T - Bottom				T							
B - Back											
<b>Process Connection Sizes</b>											
2 - G ¼ Male Dial 63 G ½ Male NS100,160 Dial					2						
4 - ¼ NPT Dial 63 Male ½ NPT Male NS100,160 Dial											
6 - Customer											
<b>Case Cover</b>											
N - None						N					
C - With cover											
<b>Process Connection Material</b>											
S - 316L Stainless steel							S				
M - Monel® 400											
H - Hastelloy											
C - Customer											
<b>Accuracy</b>											
AT - 0.1% (std.)								AT			
AC - 0.05%											
<b>Certificate</b>											
N - None											
I - Intrinsically safe ( Ex ib IIC T4)									I		
<b>Options</b>											
CM - Material Traceability certification											
CP - Hydrostatic testing with certificate											
CL - Cleaning for special service											
YW - 316L Stainless steel case											
OS - Overload stop											
CC - Calibration certificate											
NH - Stainless steel tag wired to case											
AT - ATEX											
WA - One year warranty										WA	
Other											





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