

## 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 to 7 MPa ranges)
- Case Material 304 St. steel
- Case Diameter 100 mm (4") nominal
- Connection Botton
- 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	mmH2O	Mpa	Kgf/cm2		
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 ... +2	-100 ... +200	-1000 ..2000	-750.0671 ... +1500.12	-10197.162 ... +20394.32	-0.1 ~ +0.2	-1.019 ... +2.039		
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 ... +10	-100 ... +1000	-1000 ... 10000	-750.0671 ... +7500.62	-10197.162 ... +101971.6	-0.1 ~ +1	-1.019 ... +10.1972		
M00	0 ... 0.25	0 ... 25	0 ... 250	0 ... +187.5154	0... +25492.90	0 ~ +0.025	0 ... +0.2549291		
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 ... 2.5	0 ... 250	0 ... 2500	0 ... +1875.15	0... +25492.90	0 ~ 0.25	0 ... +2.54929		
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 ... 16	0 ... 1600	0 ... 16000	0 ... +12001		0 ... 1.6	0 ... +16.3155		
M09	0 ... 25	0 ... 2500	0 ... 25000	0 ... +18751.5		0 ... 2.5	0 ... +25.4929		
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 ... 100000	0 ... +75006.17		0 ... 10	0 ... +101.97		
M13	0 ... 160	0 ... 16000	0 ... 160000	0 ... +120010		0 ... 16	0 ... +163.155		
M14	0 ... 250	0 ... 25000				0 ... 25	0 ... +254.92		
M15	0 ... 400	0 ... 40000				0 ... 40	0 ... +407.88		
M16	0 ... 600	0 ... 60000				0 ... 60	0 ... +611.82		
M17	0 ... 700	0 ... 70000				0 ... 70	0 ... +713.801		
M18	0 ... 1000					0 ... 100	0 ... +1019.7		
M19	-1 ... 40	-100 ... 4000	-1000 ... 40000	-750.0671 ... +30002	-10197.162 ... +40788	-0.1 ... 4	-1.019 ... +40.788		
L1	15 mbar	L2	25 mbar	L3	60 mbar	L4	100 mbar	L5	160 mbar

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
Range											
Select a range from the table		M10									
Dial Size/Model Code											
2 - 63 mm(2.1/2")											
4 - 80 mm(3")			4								
6 -100mm(4")											
8 -160mm(6")											
Process Connection											
T - Bottom				T							
B - Back											
Process Connection Sizes											
2 - 1/4 NPT Dial 63,80 Male 1/2 NPT Male NS100,160 Dial					2						
4 - G 1/4 Male Dial 63 G 1/2 Male NS100,160 Dial											
6 - Customer											
Case Cover											
N - None						N					
C - With cover											
Process Connection											
S - 304 Stainless steel							S				
L - 316L Stainless steel											
M - Monel® 400											
H-Hastelloy											
C-Customer											
Accuracy											
AT - 0.1% (std.)								AT			
AC - 0.05%											
Certificate											
N - None											
I - Intrinsically safe ( Ex ib IIC T4)									I		
Options											
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											





Address: 7191 Yonge street, Toronto, Canada

Tel: +16472221281(5 line)

Web: [www.madecotech.com](http://www.madecotech.com)

Email: [Info@madecotech.com](mailto:Info@madecotech.com)