

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

- 1 year warranty
- Dial size: 105 mm
- Measuring ranges from -100 ... 1000kpa, 0 ... 1600 bar
- Accuracy $\pm 0.1\%$... $\pm 0.05\%$ option (10 ... 30°C)
- Temperature indicator -10 ... 50°C
- Temperature compensation: 0 ... 40°C
- Multi selectable pressure units
- Excellent shock and vibration resistance
- Option: Rotatable instrument head, backlighting
- Option: Intrinsically safe
- View MAX/MIN Working mode
- Scale ranges up to 0 ... 1,600 bar
- Zero clearing, back light, ON/OFF

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.

Customized installation

Through its rotatable case, the model MDG20 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 in (10 - 30°C)
- 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 AA battery
- 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 0...40°C
- Environ. Protection Ip54
- Weight 260 g

| 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(2.12") | | | | | | | | | | | |
| 4 -100mm(4") | | | 4 | | | | | | | | |
| 6 -160mm(6") | | | | | | | | | | | |
| Process Connection | | | | | | | | | | | |
| T - Bottom | | | | T | | | | | | | |
| B - Back | | | | | | | | | | | |
| Process Connection Sizes | | | | | | | | | | | |
| 2 - ¼"NPT Dial 63 Male ½"NPT Male NS100,160 Dial | | | | | 2 | | | | | | |
| 4 - G ¼"Male Dial 63 G ½"Male NS100,160 Dial | | | | | | | | | | | |
| 6 - Customer | | | | | | | | | | | |
| Case Cover | | | | | | | | | | | |
| N - None | | | | | | N | | | | | |
| C - With cover | | | | | | | | | | | |
| Process Connection | | | | | | | | | | | |
| S - 316L Stainless steel | | | | | | | S | | | | |
| 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 | | | | | | | | | | | |





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