

## Battery powered Digital Pressure gauge

### Model: MDG10

#### Applications

- Measure gas liquid oil and other corrosive medium
- Test bench / gauge repair facilities
- Hydraulics and pneumatics
- Test measurement and validation
- 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... 1600 bar
- Accuracy 0.4 %, 0.2 option
- Temperature indicator -20 ... 70 °C
- Zero clearing, backlight ON/OFF
- View Max/Min working mode
- Multi selectable pressure units
- Excellent shock and vibration resistance
- Option: Rotatable instrument head, backlighting
- Option: Intrinsically safe
- Bar graph indicator
- Scale ranges up to 0 ... 1,600 bar
- Temperature compensation: 0 - 60 °C

#### 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

the model MDG 10 can be easily adapted to local conditions. The backlighting also provides easy readability of the display in poor lighting conditions.



## Description

- Accuracy 0.4% of full scale option 0.2% 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 80 mm (3") nominal
- Connection Bottom
- Display 4-digit LCD
- Pressure Units M Pa , kPa, bar, m bar, psi, kgf/ cm2, mmHg, mH2o
- Measurement Res. 14 bit
- Sampling Time 3 Time second
- Process Connection 304 St. steel 1/2", 1/4", M20\*15 and other
- Pressure Ranges Positive, negative and compound
- Over Pressure 150% full scale
- Power Supply 3 V (two pieces AAA battery)
- Battery operating time Continuous working for 3600 hour
- Acquisition speed (1-10)/sec
- Medium Temperature -20...70°C
- Ambient Temperature -10...50°C
- Temp. Compensation 0...60°C
- Environ. Protection IP 54

| 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

## MDG 10 Battery powered Digital Pressure gauge

| ORDERING CODE  | Example: | MDG 10 | M10 | 3 | 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")                                     |          |        |     |   |   |   |   |   |    |   |    |      |
| 3 - 80 mm(3")  |          |        |     | 3 |   |   |   |   |    |   |    |      |
| 4 - 100 mm(4")                                       |          |        |     |   |   |   |   |   |    |   |    |      |
| Process Connection Type                              |          |        |     |   |   |   |   |   |    |   |    |      |
| T- Bottom  |          |        |     |   | T |   |   |   |    |   |    |      |
| B - Back   |          |        |     |   |   |   |   |   |    |   |    |      |
| Process Connection Sizes                             |          |        |     |   |   |   |   |   |    |   |    |      |
| 2 - 1/4 NPT Dial 63 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 Material                          |          |        |     |   |   |   |   |   |    |   |    |      |
| S - 304 Stainless steel                              |          |        |     |   |   |   |   | S |    |   |    |      |
| L - 316L Stainless steel                             |          |        |     |   |   |   |   |   |    |   |    |      |
| H - Hastelloy  |          |        |     |   |   |   |   |   |    |   |    |      |
| C - Customer   |          |        |     |   |   |   |   |   |    |   |    |      |
| Accuracy   |          |        |     |   |   |   |   |   |    |   |    |      |
| AT - 0.4% (std.)                                     |          |        |     |   |   |   |   |   | AT |   |    |      |
| AC - 0.2%  |          |        |     |   |   |   |   |   |    |   |    |      |
| 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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