

# Indicating Pressure Transmitter and Switch

## Model: MDGS30

### 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
- Pressure Vessels

### Special features

- 1 year warranty
- 4...20 mA Output
- Two relays with hysteresis two group independent NO/NC alarm points
- Measuring ranges from -100 ... 100kpa 0... 1600 bar
- Accuracy 0.5 %, 0.25 optional
- Zero clearing, backlight ON/OFF
- Multi selectable pressure units
- Excellent shock and vibration resistance
- Option: Rotatable instrument head, backlighting
- Intrinsically safe: EX and water proof
- IP 65
- Connector material SS316
- temperature compensation: 0 - 65°C



MDGS30 model of indicating pressure transmitter and switches are pressure indicators with two independent relays with adjustable hysteresis and one 4...20 mA output proportional to the pressure input.

#### **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. Retrievable Min/Max Min/Max peak values, enable effective analysis of the measuring point.

#### **Customised installation**

Through its rotatable case, the model MDGS30 can be easily adapted to local conditions. The backlighting also provides easy readability of the display in poor lighting conditions.

## Description

- Accuracy 0.5% of full scale option 0.25% 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 80 mm (3") nominal
- Connection Bottom
- Display 4-digit LCD display and alarm indication
- 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 ≤100bar 200% full scale, ≥100bar 150% full scale
- Power Supply 220VAC, 24VDC
- Relay Capacity The first group: 220VAC 5A/24VDC 5A  
The second group: 220VAC 3A/24VDC 3A
- Acquisition speed (1-10)/sec
- Medium Temperature -20...85°C
- Ambient Temperature -10...50°C
- Temp. Compensation 0...65°C
- Environ. Protection IP 65
- Insulation Resistance 7Ω
- Response Time 30ms

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



**MDGS30 Indicating Pressure Transmitter/Switch**

ORDERING CODE	Example:	MDGS30	M10	3	T	2	A	S	AT	I	D	WA	Note
<b>Range</b>													
Select a range from the table			M10										
<b>Dial Size</b>													
2 - 63 mm(2½")													
3 - 80 mm(3")				3									
4 - 100 mm(4")													
<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>Power Supply</b>													
A - 220 VAC							A						
D - 24 VDC													
<b>Process Connection Material</b>													
S - 304 Stainless steel								S					
L - 316L Stainless steel													
H - Hastelloy													
C - Customer													
<b>Accuracy</b>													
AT - 0.5% (std.)									AT				
AC - 0.25%													
<b>Certificate</b>													
N - None													
I - Intrinsically safe ( Ex ib IIC T4)										I			
<b>Output</b>													
D - Display											D		
A - 4...20 mA													
R - RS485													
C - Customer													
<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	
NS - NACE MR 0175 & NACE MR 0103 standard													
Other													





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