

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

Special features

- 4...20 mA Output
- Two relays with hysteresis
- Measuring ranges from -100 ... 100kpa 0... 1000 bar
- Accuracy 0.5 %, 0.25 option
- Temperature indicator -10 ... 50
- Zero clearing, backlight ON/OFF
- Multi selectable pressure units
- Excellent shock and vibration resistance
- Option: Rotatable instrument head, backlighting
- Option: Intrinsically safe
- Pressure ranges up to 1600 bar

Description

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. 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-30 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 to 7 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
- Acquisition speed (1-10)/sec
- Medium Temperature -20...80°C
- Ambient Temperature -10...50°C
- Temp. Compensation -10...70°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									

MDGS30 Indicating Pressure Transmitter/Switch

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



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