

Capsul Element Pressure Gauge

Model: PL1

Applications

- For gaseous and liquid aggressive media that are not highly viscous or crystallising, also in aggressive ambience
- Process industry: Chemical/petro chemical, power stations, food and beverage, offshore oil rigs, pulp and paper, environmental technology, machine building and general plant construction
- Gas Measurement; Burners and Leak Detectors



Special features

- According to NACE MR 0175 & MR0103 standard
- Stabilizer movement
- Anti-glare & Anti-static window
- Zero-adjustment through window
- All stainless steel construction
- Design EN 837-3
- Scale ranges up to 0 ... 600mbar



Description

- | | |
|-------------------------|---|
| ■ Accuracy class | NS 63: 1.6 NS 100, 160: 1.6% 1% (option) |
| ■ Pressure element | Brass and Stainless steel 316L Capsul type
Hastelloy, Monel, Tantalum(option) |
| ■ Process connection | Brass and Stainless steel 316L back & bottom
NS 63: ¼ NPT, NS 100, 160: ½ NPT, BSP (option) |
| ■ Socket & connection | Brass and 316L st. steel treated |
| ■ Window | Glass, Laminated safety glass Anti-glare & Anti-static |
| ■ Operating temperature | Ambient: -4°F to +140°F (-20°C to +60°C)
Medium: +212°F (+100°C) maximum |
| ■ Movement | Stainless steel Zero adjustment in front on dial |
| ■ Pointer | Aluminium, black |
| ■ Dial | Aluminium, white, black lettering,
Weather resistant (NEMA 3 / IP54) |
| ■ Protection | With case filling (NEMA 4X / IP66) |
| ■ Range | 2½" (63mm): 0...16" WC (40 mbar) to 0...250" WC (600 mbar)
4" (100mm): 0...6" WC (16 mbar) to 0...250" WC (600 mbar)
6" (160 mm): 0...1" WC (2.5 mbar) to 0...250" WC (600 mbar)
or other equivalent units of pressure or vacuum |

■ **Pressure limitation**

NS 63: Steady: 3/4 x full scale value
 Fluctuating: 2/3 x full scale value
 Short time: Full scale value
 NS 100, 160: Steady: Full scale value
 Fluctuating: 0.9 x full scale value
 Short time: full scale value

■ **Temperature error**

When the temperature of the measuring system deviates from the reference temperature (+20 °C):
 max. ±0.4 %/10 K of full scale value

PL1 Capsul Pressure Gauges

ORDERING CODE	Example:	PL1	4	T	2	L	S	AT	ST	Note
Dial Size										
2 - 63 mm(2 ^{1/2} "										
4 - 100mm(4")			4							
6 - 160mm(6")										
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 Design										
D - Dry										
L - Liquid fill						L				
Tube and Process Connection Material										
B - Brass										
S - 316L Stainless steel							S			
H - Hastelloy										
C - Customer										
Accuracy										
AT - 1.6% (std.)								AT		
AC - 1%										
Options										
SC - Single scale										
DS - Dual scales										
YW - 316L Stainless steel case										
OS - Overload stop										
GF - Glycerine filling										
QC - Low temperature silicone filling for ambient temperature down to -94°F (-70°C), including Fluorosilicone sealing										
SH - Red set hand, stationary (dry case only)										
BF - Back flange for wall mounting										
MF - Front flange for panel mounting										
CC - Calibration certificate										
NH - Stainless steel tag wired to case										
NC - NACE MR 0175 & MR 0103 standard										
ST - Stabilizer movement									ST	
AN - Anti-glare & Anti - static window										
AT - ATEX										
WA - One year warranty										
Other										



Address: 7191 Yonge street, Toronto, Canada

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Capsul Element Pressure Gauge

Model: PL2

Applications

- For gaseous and liquid aggressive media that are not highly viscous or crystallising, also in aggressive ambience
- Process industry: Chemical/petro chemical, power stations, food and beverage, offshore oil rigs, pulp and paper, environmental technology, machine building and general plant construction
- Gas Measurement; Burners and Leak Detectors



Special features

- According to nace MR 0175 & MR0103 standard
- Stabilizer movement
- Anti-glare & Anti-static window
- Zero-adjustment through window
- All stainless steel construction
- Design EN 837-3
- Scale ranges up to 0 ... 600mbar

Description

- | | |
|-------------------------|---|
| ■ Accuracy class | NS 63: 1.6 NS 100, 160: 1.6% 1% (option) |
| ■ Pressure element | Brass and Stainless steel 316L Capsul type
Hastelloy, Monel, Tantalum(option) |
| ■ Process connection | Brass and Stainless steel 316L back & bottom
NS 63: ¼ NPT, NS 100, 160: ½ NPT, BSP (option) |
| ■ Socket & connection | Brass and 316L st. steel treated |
| ■ Window | Glass, Laminated safety glass Anti-glare & Anti-static |
| ■ Operating temperature | Ambient: -4°F to +140°F (-20°C to +60°C)
Medium: +212°F (+100°C) maximum |
| ■ Movement | Stainless steel Zero adjustment in front on dial |
| ■ Pointer | Aluminium, black |
| ■ Dial | Aluminium, white, black lettering,
Weather resistant (NEMA 3 / IP54) |
| ■ Protection | With case filling (NEMA 4X / IP66) |
| ■ Range | 2½" (63mm): 0...16" WC (40 mbar) to 0...250" WC (600 mbar)
4" (100mm): 0...6" WC (16 mbar) to 0...250" WC (600 mbar)
6" (160 mm): 0...1" WC (2.5 mbar) to 0...250" WC (600 mbar)
or other equivalent units of pressure or vacuum |

■ **Pressure limitation**

NS 63: Steady: 3/4 x full scale value
 Fluctuating: 2/3 x full scale value
 Short time: Full scale value
 NS 100, 160: Steady: Full scale value
 Fluctuating: 0.9 x full scale value
 Short time: full scale value

■ **Temperature error**

When the temperature of the measuring system deviates from the reference temperature (+20 °C):
 max. ±0.4 %/10 K of full scale value

PL2 Capsul Pressure Gauges

ORDERING CODE	Example:	PL2	4	T	2	L	S	AT	ST	Note
Dial Size										
2 - 63 mm(2 ^{1/2} "										
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 Design										
D - Dry										
L - Liquid fill						L				
Tube and Process Connection										
S - 316L Stainless steel							S			
M - Monel										
H - Hastelloy										
C - Customer										
Accuracy										
AT - 1.6% (std.)								AT		
AC - 1%										
Options										
SC - Single scale										
DS - Dual scales										
YW - 316L Stainless steel case										
OS - Overload stop										
GF - Glycerine filling										
QC - Low temperature silicone fill for ambient temperature down to -94°F (-70°C), including Fluorosilicone sealing										
SH - Red set hand, stationary (dry case only)										
BF - Back flange for wall mounting										
MF - Front flange for panel mounting										
CC - Calibration certificate										
NH - Stainless steel tag wired to case										
NC - NACE MR 0175 & MR 0103 standard										
ST - Stabilizer movement									ST	
AN - Anti-glare & Anti - static window										
AT - ATEX										
WA - One year warranty										
Other										



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Diaphragm Pressure Gauge

Model: PD1

Applications

- For gaseous and liquid aggressive media that are not highly viscous or crystallising, also in aggressive ambience
- 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

- According to NACE MR 0175 & MR0103 standard
- Stabilizer movement
- Anti-glare & Anti-static window
- Excellent load-cycle stability and shock resistance
- All stainless steel construction
- Design EN 837-3
- High Scale ranges up to 40 ... 600 bar
Low Scale ranges up to 16 mbar ... 40 bar
- Threaded or open flange process connections

Description

- | | |
|---------------------------|---|
| ■ Accuracy class | NS 63: 2.5 NS 100, 160: 1.6, 0.1% (option) |
| ■ Pressure element | Stainless steel 316L C-type or helical type
Hastelloy, Monel, Tantalum(option) |
| ■ Process connection | Stainless steel 316L bottom
NS 63: ¼ NPT, NS 100, 160: ½ NPT, BSP (option) |
| ■ Socket & connection | Threaded or open flange process connections |
| ■ Window | Glass, Laminated safety glass Anti-glare & Anti-static |
| ■ Permissible temperature | Ambient: -40 ... +60 °C without liquid filling
-20 ... +60 °C gauges with glycerine filling ¹⁾
Medium: +200 °C maximum without liquid filling
+100 °C maximum with liquid filling |
| ■ Movement | Stainless steel |
| ■ Pointer | Aluminium, black |
| ■ Dial | Aluminium, white, black lettering, |
| ■ Protection | IP66 |
| ■ Range | 0...16 cmH ₂ O to 0...250 mH ₂ O;
0...1.6 to 0...2500 kPa;
0...16 mbar to 0...25 bar
Vacuum and high range ranges are available |





- Pressure limitation**

NS 63:	Steady:	3/4 x full scale value
	Fluctuating:	2/3 x full scale value
	Short time:	Full scale value
NS 100, 160:	Steady:	Full scale value
	Fluctuating:	0.9 x full scale value
	Short time:	1.3 x full scale value

- Temperature error**

When the temperature of the measuring system deviates from the reference temperature (+20 °C):
 max. ±0.4 %/10 K of full scale value

Two classes of the PD1Series are offered. low pressure application type with larger diaphragm (Ø150mm) for up to 4 mH2O pressure with the minimum span of 16 cmH2O, and high pressure application type with smaller diaphragm (Ø96 mm) for the maximum pressure of 600bar

PD1 Diaphragm Pressure Gauges

ORDERING CODE	Example:	PD1	4	T	2	L	S	AT	WA	Note
Dial Size										
2-63 mm(2½")										
4-100mm(4")			4							
6-160mm(6")										
Process Connection Type										
T- Bottom				T						
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 - Flange Type (please mention the technical details in the note)										
8 - Customer										
Case Design										
D - Dry										
L - Liquid fill						L				
Process Connection										
S - 316L Stainless steel							S			
M - Monel 400®										
H - Hastelloy										
C - Customer										
Accuracy										
AT - 1.6% (std.)								AT		
AC - 1%										
Options										
SC - Single scale										
DS - Dual scales										
YW - 316L Stainless steel case										
OS - Overload stop										
GF - Glycerine filling										
QC - Low temperature silicone fill for ambient temperature down to -94°F (-70°C), including Fluorosilicone sealing										
SH - Red set hand, stationary (dry case only)										
PF - PTFE connection and diaphragm foil										
FS - 5 * F.S. overpressure										
NC - NACE MR 0175 & MR0103 standard										
ST - Stabilizer movement										
AN - Anti-glare & Anti - static window										
CC - Calibration certificate										
NH - Stainless steel tag wired to case										
AT - ATEX										
WA - One year warranty									WA	
Other										





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Differential pressure gauge

Model: DP2

Applications

- For gaseous, liquid, particulates-containing, viscous and aggressive media
- Water and wastewater pressure control
- Monitoring and control of pump
- Level measurement in closed tank
- Filtration monitoring, level and flow measurement

Special features

- All welded media chamber
- Differential pressure measuring ranges from 0 ... 10 mbar to 60 bar
- Dry or liquid filled
- Flow measurement dial (optional)
- Optional solid front case

Description

- **Accuracy class** 1.6, 1% (option)
- **Pressure element** High range stainless steel 1.4571 (low range inconel)
Hastelloy, Monel, Tantalum(option)
- **Process connection** G 1/4 Stainless steel 316L & bottom
Hastelloy, Monel, Tantalum(option)
- **Window** Laminated safety glass Anti-glare & Anti-static
- **Permissible temperature** Ambient: -40 ... +60 °C without liquid filling
-20 ... +60 °C gauges with glycerine filling¹⁾
Medium: +100 °C
- **Movement** Stainless steel with stabilizer
- **Pointer** Aluminium, black
- **Dial** Aluminium, white, black lettering,
- **Protection** IP66
- **Range** 0...10 mbar to 0...60 bar



Max. working pressure, overpressure safety

Scale ranges	Max. working pressure in bar (static pressure)		Overpressure safety in bar either side max.	
	Standard	Optional	Standard	Optional
0 ... 16 to 0 ... 40 mbar	(2.5 bar)	(6 bar)	(2.5 bar)	-
0 ... 60 to 0 ... 250 mbar	(6 bar)	(10 bar)	(2.5 bar)	(6 bar)
0 ... 400 mbar	(25 bar)	(40 bar)	(4 bar)	(40 bar)
0...0.6 bar	(25 bar)	(40 bar)	(6 bar)	(40 bar)
0...1 bar	(25 bar)	(40 bar)	(10 bar)	(40 bar)
0...1.6 bar	(25 bar)	(40 bar)	(16 bar)	(40 bar)
0 ... 2.5 to 0 ... 40 bar	(40 bar)	(40 bar)	(25 bar)	(40 bar)
60 bar	(60 bar)	(60 bar)	(60 bar)	(60 bar)



DP 2 Differential Pressure Gauges

ORDERING CODE	Example:	DP2	4	T	2	L	S	AT	WA	Note
Dial Size/Model Code										
4 - 100mm(4")			4							
5 - 125mm(5")										
6 - 160mm(6")										
Process Connection Type										
T - Bottom				T						
B - Back										
Process Connection Sizes										
2 - 1/4 NPT					2					
4 - 1/4 G										
6 - Customer										
Case Design										
D - Dry										
L - Liquid fill						L				
Tube and Process Connection Material										
S - 316L Stainless steel							S			
M - Monel® 400										
H - Hastelloy										
C - Customer										
Accuracy										
AT - 1.6% (std.)								AT		
AC - 1%										
Options										
SC - Single scale										
DS - Dual scales										
YW - 316L Stainless steel case										
OS - Overload stop										
GF - Glycerine filling										
QC - Low temperature silicone fill for ambient temperature down to -94°F (-70°C), including Fluorosilicone sealing										
SH - Red set hand, stationary (dry case only)										
BF - Back flange for wall mounting										
MF - Front flange for panel mounting										
CC - Calibration certificate										
NH - Stainless steel tag wired to case										
AT - ATEX										
WA - One year warranty									WA	
NS - NACE MR 0175 & MR 0103 standard										
Other										





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Digital Differential pressure gauge

Model: MDF 10

Applications

- Pharmaceutical factory
- Cleanroom
- Fan test
- Ventilation system
- Air conditioning filtration system
- Filtration monitoring

Special features

- High and low alarm sound
- High and low, light alarm sound
- High accuracy and good stability sensor
- Multi pressure units range
- Ultra low power



Description

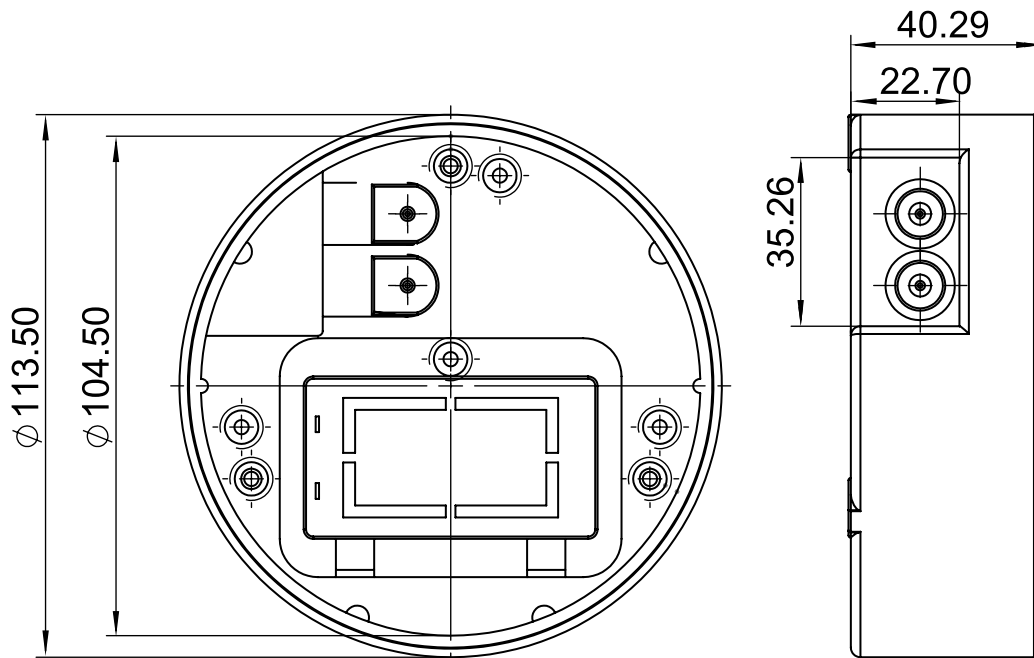
- **Accuracy class** 1%, 0.5% (option)
- **connection** G 1/4 - 4mm air nozzle
- **Permissible temperature** Ambient: -20 ... +60°C
Medium: -20...80 °C
- **Temperature compensation** 0...40 °C
- **Overload capacity** 7kPa(<2kPa range) 5* range (≥2kPa range)
- **Long-term stability** Typical: ± 0.25% FS / year
- **Zero temperature drift** Typical: ± 0.02% FS / °C , maximum ± 0.05%FS/ °C
- **Power supply** 3V: (2 AA batteries) 24VDC (option)
- **Working current** < 0.01mA (non-alarm)
- **Long-term stability** ± 0.25% FS/year
- **Measurement medium** Clean air
- **Protection** IP54

Differential pressure range selection

Model	Scale ranges	Model	Scale ranges
M1	0 ... 30 pa	M9	0 ... 500 pa
M2	-30 ... 30 pa	M10	-500 ... 500 pa
M3	0 ... 60 pa	M11	0 ... 1 kpa
M4	-60 ... 60 pa	M12	-1...1 kpa
M5	0 ... 125 pa	M13	0 ... 2.5 kpa
M6	-125 ... 125 pa	M14	-2.5 ... 2.5 kpa
M7	0 ... 250 pa	M15	0 ... 5 kpa
M8	-250 ... 250	M16	-5 ... 5 kpa
C	Customer should consult with the factory if has any special requirement		

MDF10 Differential pressure gauge

ORDERING CODE	Example: MDF 10	M6	A	S	B	Note
please see the Differential pressure range selection						
Please specify		M6				
Accuracy						
A - 1%			A			
B - 0.5%						
C - 0.2%						
Out Put						
U - 4 ... 20 mA						
S - Sound alarm/ light alarm				S		
W - Without						
C - Customer						
Power Supply						
A - 85 ~ 250 VAC						
D - 24 VDC						
B - Battery power					B	
Z - Dual power (battery and 24 VDC)						
Other						





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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... 1000 bar
- Accuracy 0.4 %, 0.2 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
- 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

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 (4") 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 5 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 2 V cell button battery (Cr240) or usb powered
- Battery operating time Continuous working for 3600 hour
- Acquisition speed (1-10)/sec
- Medium Temperature -10...50°C
- Ambient Temperature -10...50°C
- Temp. Compensation -10...50°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 - 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 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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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 to7 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:	MDG 20	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 - 100mm(4"				4								
6 - 160mm(6"												
Process Connection												
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												
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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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 Botton
- 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 - ¼NPT Dial 63 Male ½NPT 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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Fillable Contact Pressure Gauge

Model: CP1

Applications

- Monitoring of plants and switching of circuits
- Control and regulation of processes
- For gaseous and liquid aggressive media that are not highly viscous or crystallising, also in aggressive ambience
- 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

- According to NACE MR 0175 & MR0103 standard
- Stabilizer movement
- Anti-glare & Anti-static window
- Liquid-filled version also available
- Excellent load-cycle stability and shock resistance
- Up to 4 switch contacts per instrument
- Scale ranges up to 0 ... 1,600 bar



Description

- | | |
|---------------------------|--|
| ■ Accuracy class | 1.0, 0.5% (option) |
| ■ Pressure element | Stainless steel 316L C-type or helical type
Hastelloy, Monel, Tantalum(option) |
| ■ Process connection | Stainless steel 316L back & bottom
NS 63: ¼ NPT , NS 100, 160: ½ NPT, BSP (option) |
| ■ Socket & connection | 316L st. steel treated to comply with NACE MR0175&
MR 0103 standards |
| ■ Window | Laminated safety glass Anti-glare & Anti-static |
| ■ Permissible temperature | Ambient: -40 ... +60 °C without liquid filling
-20 ... +60 °C gauges with glycerine filling ¹⁾
Medium: +100 °C maximum without liquid filling
+65 °C maximum with liquid filling |
| ■ Movement | Stainless steel with stabilizer |
| ■ Pointer | Aluminium, black |
| ■ Dial | Aluminium, white, black lettering, |
| ■ Protection | IP66 |
| ■ Range | 0...10 to 0...30,000 psi;
0...60 to 0...200,000 kPa;
0...0.6 to 0...2,000 bar
Vacuum & compound ranges
are available. single or double scale dials. |

- Pressure limitation**

NS 63:	Steady:	3/4 x full scale value
	Fluctuating:	2/3 x full scale value
	Short time:	Full scale value
NS 100, 160:	Steady:	Full scale value
	Fluctuating:	0.9 x full scale value
	Short time:	1.3 x full scale value

- Temperature error**

When the temperature of the measuring system deviates from the reference temperature (+20 °C):
max. ±0.4 %/10 K of full scale value

- Contact Type**

Silver-Nickel contacts
See the electric alarm contact types section

- Contact Rating**

Magnetic: 1 A for up to 230 VAC
0.5 A for up to 48 VDC
Inductive: 0.4 A up to 220 VAC
Inductive: 0.4 A up to 220 VAC (op.)

Magnetic Contact

Code	Version	1 st Contact	Contact Type	1 st Contact
M0	magnetic	NO		
M2	magnetic	NC		
M4	magnetic	Special single change over contact (SPDT)		
M6	magnetic	NO		NO
M8	magnetic	NO		NC
M10	magnetic	NC		NO
M12	magnetic	NC		NC
M14	magnetic	Special single change over contact (SPDT)		

Inductive Contact

Code	Version	1 st Contact	Contact Type	1 st Contact
I1	inductive	NO		
I3	inductive	NC		
I5	inductive	NO		NO
I7	inductive	NO		NC
I9	inductive	NC		NO
I11	inductive	NC		NC



CP1 Contact Pressure Gauges

ORDERING CODE	Example: CP1	4	T	2	L	S	M6	AC	AT	Note
<u>Dial Size/Model Code</u>										
2 - 63 mm(2½")										
4 - 100mm(4")										
6 - 160mm(6")										
<u>Process Connection Type</u>										
T - Bottom										
B - Back										
<u>Process Connection Sizes</u>										
2 - ¼ NPT Dial 63 Male ½ NPT Male NS100,160 Dial										
4 - G ¼ Male Dial 63 G ½ Male NS100,160 Dial										
6 - Customer										
<u>Case Design</u>										
D - Dry										
L - Liquid fill										
<u>Tube and Process Connection Material</u>										
S - 316L Stainless steel										
M - Monel® 400										
H - Hastelloy										
C - Customer										
<u>Contact type</u>										
Specify a code form the contact tables										
Accuracy										
AT - 1% (std.)										
AC - 0.5%										
<u>Options</u>										
SC - Single scale										
DS - Dual scales										
YW - 316L Stainless steel case										
OS - Overload stop										
GF-Glycerine filling										
QC - Low temperature silicone fill for ambient temperature down to -94°F (-70°C), including Fluorosilicone sealing										
SH - Red set hand, stationary (dry case only)										
BF - Back flange for wall mounting										
MF - Front flange for panel mounting										
CC - Calibration certificate										
NH - Stainless steel tag wired to case										
AT - ATEX										
WA - One year warranty										
NS - NACE MR 0175 & NACE MR 0103 standard										
Other										





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BOURDON TUBE PRESSURE GAUGE WITH OUTPUT SIGNAL

MODEL : PGT1

Special features

- 4-20 mA output
- IP- 67 protection (waterproof)
- Acquisition and display of process values
- Transmission of process values to the control room, 4 ... 20 mA, 0 ... 20 mA, 0 ... 10 V
- Safety-related applications
- Measuring ranges 0 ... 0.6 bar to 0 ... 1600 bar



Description

At any point where the process pressure has to be indicated locally, and, at the same time, a signal is wanted to be transmitted to a central controller or remote control room,

The model PGT1 high-quality, stainless steel safety pressure gauge with a nominal size of 100 or 160.

the electrical output signal proportional to the pressure, 4 ... 20 mA, is produced.

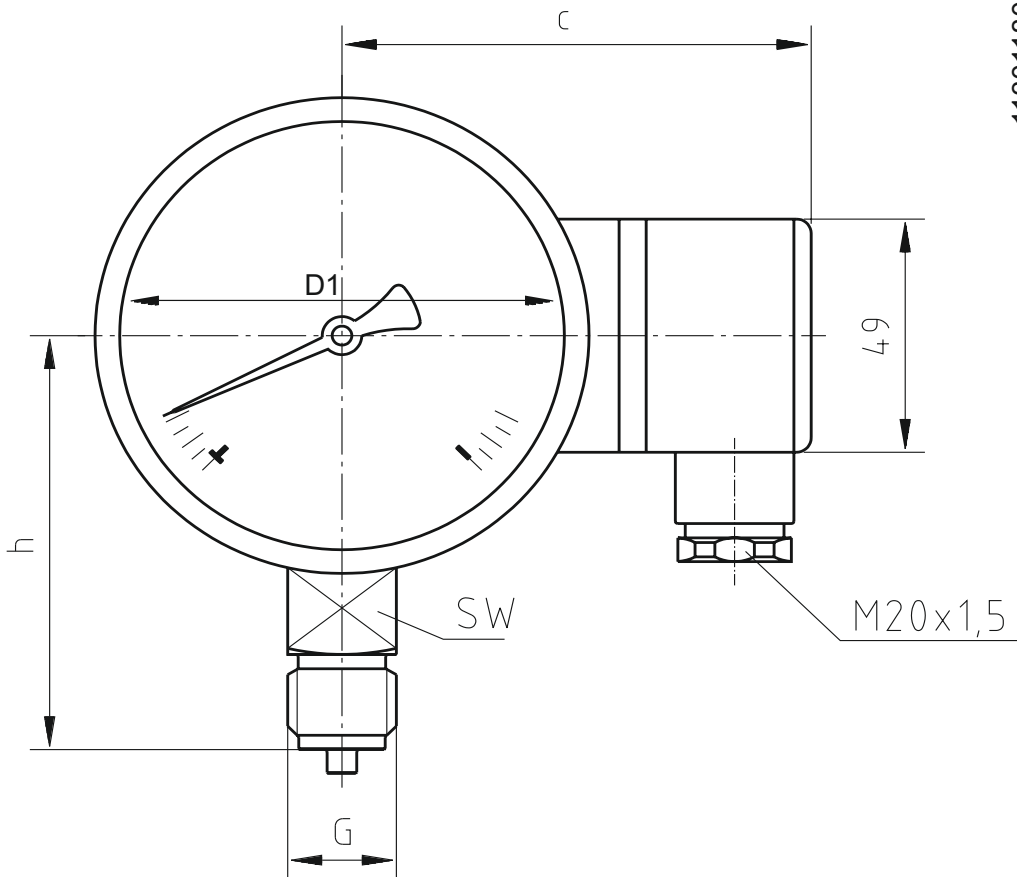
The measuring span (electrical output signal) is set automatically along with the mechanical display, i.e. the scale over the full display range corresponds to 4 ... 20 mA. The electrical zero point can also be set manually.

Specifications

Accuracy	1 % f.s.
Out Put	4 - 20 mA ... 1 - 5 VBC ... 0 - 10 VDC
Case	304 St. steel with bezel
Case Diameter	100, 160 mm
Connection	Back, Bottom
Pressure Ranges	vacuum up to 1600 Bar - see the table
Over Pressure	1.25 % max. pressure
Power Supply	10 ... 32 VDC
Storage Temperature	-20 ... +85 C
Ambient Temperature	-10 ... +60 C
Medium Temperature	-20 ... +100 C
Protection Class	IP - 65

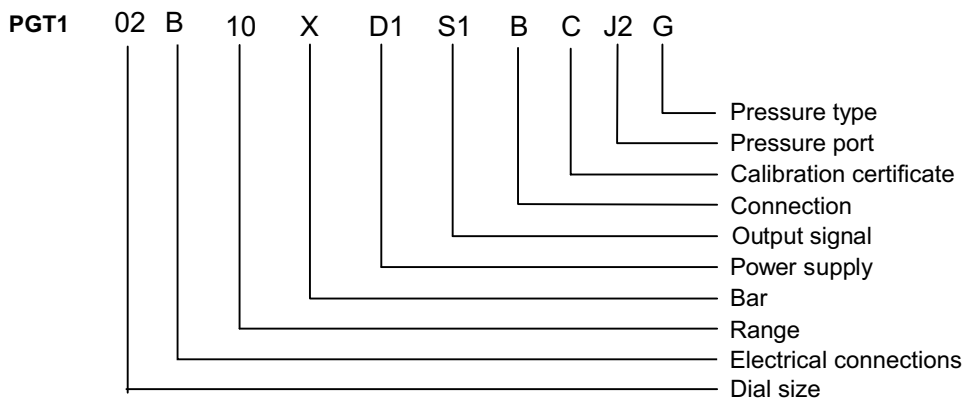


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NS	Dimensions in mm					Weight in kg
	C	D1	G	H	SW	
100	94	101	G ½ B	87	22	
160	123.5	161	G ½ B	118	22	

Ordering example : PGT1 02-B-10-X-D1-S1-B-C-J2-G



Ordering information

PGT1	Bourdon Tube Pressure Gauges with output signal			
	Code	Dial Size In mm		
	01	60 mm		
	02	100 mm		
	03	150 mm		
	Electrical Connection			
	A	Circular connector		
	B	Din connector		
	C	Direct outlet 1.5 meter		
		Range	-1 . . . 0 . . . 1000Bar	
		(0-X) Psi or Bar	X: actual range	
		Code	Power supply	
		D1	24VDC	
		D2	220VAC	
		Code	Output signal	
		S1	4~20mADC	
		S2	1~5VDC	
		S3	0~5VDC	
		S4	0~10 VDC	
		Code	Connection	
		B	Bottom Connection	
		R	Back Connection	
		Code	Calibration certificate	
		C	Calibration certificate	
		X	None	
		Code	Pressure port	
		J1	M20×1.5 Male	
		J2	G1/2 Male	
		J3	G1/4 Male	
		J4	others	
		Code	Pressure type	
		G	Gauge pressure	
		A	Absolute pressure	



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Differential pressure gauge Model: DP1

Applications

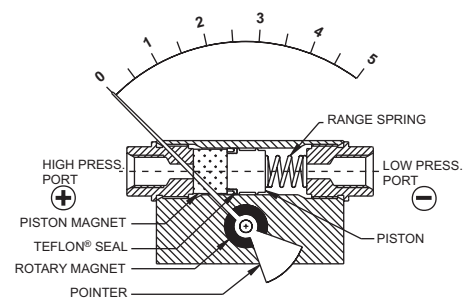
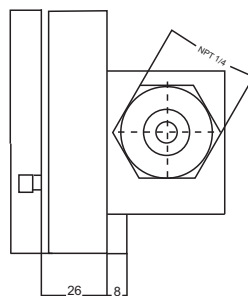
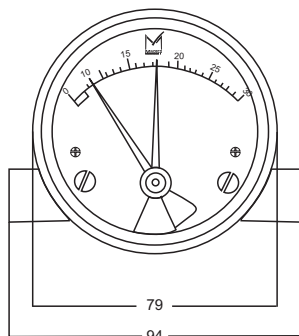
- Filtration Monitoring
- Flow Measurement
- Leak detection
- Tank Level Measurement

Special features

- 1 year warranty
- Static pressure capability (1,500 psi)
- Ranges from 1 psi to 150 psi
- Superior magnets for smoother pointer motion
- Small convoluted diaphragm actuator

Description

- | | |
|-------------------------------|---|
| ■ Accuracy | 3% ascending pressure full scale differential |
| ■ Dial Sizes | 2 1/2", 3 1/2", 4", 4 1/2", 6" |
| ■ Ranges | 0-150psi |
| ■ Process Connection Location | Bottom, back, in-line |
| ■ Process Connection Sizes | 1/4 NPT Female |
| ■ Migration | None; Zero leakage from high to low port |
| ■ Process Temperature | 175° F (80° C) -40 - 70 |
| ■ Body material | Aluminium body |
| ■ Red pointer follower | Indicates the historic maximum differential pressure (resettable) |
| ■ Mounting | Direct |
| ■ Window | Acrylic, glass, hard glass |
| ■ Wetted parts | 316L stainless steel |
| ■ Maximum Static Pressure | 3625 psi |
| ■ Environ protection | IP 54 |



High port is always on the left hand side.

MODEL : DP1 Piston



DP1 Differential pressure gauge

ORDERING CODE	Example:	DP1	3	L	2	G	S	A	A	V	AT	WA	Note
Dial Size/Model Code			3										
3 - 80mm(3")													
4 - 100mm(4")													
5 - 125mm(5")													
Process Connection Type													
L - In - line (std)				L									
B - Back													
T - Bottom													
Process Connection Sizes													
2 - ¼NPT					2								
4 - ¼ G													
6 - Customer													
Function													
G - Gauge						G							
S - Switch													
W - Gauge + Switch													
Piston and Process Connection Material													
S - 316L Stainless steel							S						
M - Monel® 400													
H - Hastelloy													
C - Customer													
Window													
G - Glass													
A - Acrylic								A					
H - Hard Glass													
Body Material													
A - Alminum (anodized)									A				
B - Brass													
316 St. Steel													
Seals													
B - Buna													
V - Viton										V			
E - EPDM													
Accuracy													
AT - 3% (std.)											AT		
AC - 2%													
Options													
SC - Single scale													
DS - Dual scales													
FS - Flow measurement dial													
OS - Overload stop													
GF - Glycerine filling													
QC - Low temperature silicone fill for ambient temperature down to -94°F (-70°C), including Flourosilicone sealing													
SH - Red set hand, stationary (dry case only)													
CC - Calibration certificate													
NH - Stainless steel tag wired to case													
AT - ATEX													
WA - One year warranty												WA	
Other													





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Differential pressure gauge Model: DP3

Applications

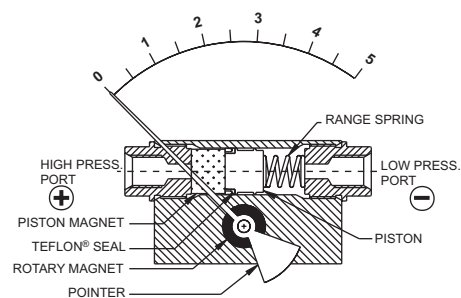
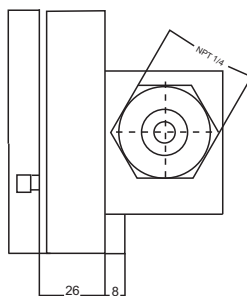
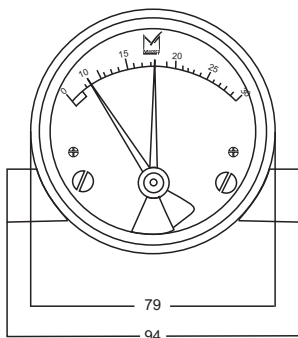
- Filtration Monitoring
- Flow Measurement
- Leak detection
- Tank Level Measurement

Special features

- 1 year warranty
- Static pressure capability (1,500 psi)
- Ranges from 1 psi to 150 psi
- Superior magnets for smoother pointer motion
- Small convoluted diaphragm actuator

Description

- | | |
|-------------------------------|---|
| ■ Accuracy | 3% ascending pressure full scale differential |
| ■ Dial Sizes | 2 1/2", 3 1/2", 4", 4 1/2", 6" |
| ■ Ranges | 0-150psi |
| ■ Process Connection Location | Bottom, back, in-line |
| ■ Process Connection Sizes | 1/4 NPT Female |
| ■ Migration | None; Zero leakage from high to low port |
| ■ Process Temperature | 175° F (80° C) -40 - 70 |
| ■ Body material | Stainless steel body |
| ■ Red pointer follower | Indicates the historic maximum differential pressure (resettable) |
| ■ Mounting | Direct |
| ■ Window | Acrylic, glass, hard glass, safety glass |
| ■ Wetted parts | 316L stainless steel |
| ■ Maximum Static Pressure | 3625 psi |
| ■ Environ protection | IP 65 |



MODEL : DP3 Piston



DP3 Differential pressure gauge

ORDERING CODE	Example:	DP3	3	L	2	G	S	A	A	V	AT	WA	Note
Dial Size/Model Code			3										
3 - 80mm(3")													
4 - 100mm(4")													
5 - 125mm(5")													
Process Connection Type													
L - In - line (std)				L									
B - Back													
T - Bottom													
Process Connection Sizes													
2 - ¼NPT					2								
4 - ¼ G													
6 - Customer													
Function													
G - Gauge						G							
S - Switch													
W - Gauge + Switch													
Piston and Process Connection Material													
S - 316L Stainless steel							S						
M - Monel® 400													
H - Hastelloy													
C - Customer													
Window													
S - Safety glass													
A - Acrylic								A					
H - Hard glass													
Body Material													
A - Alminum (anodized)									A				
B - Brass													
S - 316 St. Steel													
Seals													
B - Buna													
V - Viton										V			
E - EPDM													
Accuracy													
AT - 3% (std.)											AT		
AC - 2%													
Options													
SC - Single scale													
DS - Dual scales													
FS - Flow measurement dial													
OS - Overload stop													
GF - Glycerine filling													
QC - Low temperature silicone fill for ambient temperature down to -94°F (-70°C), including Flourosilicone sealing													
SH - Red set hand, stationary (dry case only)													
CC - Calibration certificate													
NH - Stainless steel tag wired to case													
AT - ATEX													
WA - One year warranty												WA	
Other													





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Standard Pressure Gauge with Crimped Bezel Model: PI1

Applications

- General industrial applications
- Pumps and compressors
- Hydraulic and pneumatic systems
- Suitable for fluid medium which does not clog connection port or corrode copper

Special features

- Reliable and cost-effective
- Black plastic or painted steel case
- Nominal size 40 mm, 50 mm, 63 mm, 80mm, 100 mm,
- Scale range vacuum up to 1000 bar

Description

- | | |
|---------------------------|--|
| ■ Accuracy class | 2.5% for 40
1.6% for 50 to 100 mm dials;
1% (option) for 50 to 100 mm |
| ■ Pressure element | Brass C-type or helical type
Stainless steel 304 and 316 (option) |
| ■ Process connection | Brass back |
| ■ Socket & connection | Brass, Stainless steel 304 and 316 (option) |
| ■ Window | Glass, Plexiglas, Acrylic, (option) |
| ■ Permissible temperature | Ambient: -20 ... +60 °C
Medium: +60 °C |
| ■ Movement | Copper alloy |
| ■ Pointer | Aluminium, black |
| ■ Dial | Aluminium, white, black lettering, |
| ■ Range | 0...10 to 0...15.000 psi;
0...60 to 0...100.000 kPa;
0...0.6 to 0...1000 bar
Vacuum & compound ranges
are available. single or double scale dials. |



- **Pressure limitation**
Steady: 3/4 x full scale value
Fluctuating: 2/3 x full scale value
Short time: Full scale value

- **Temperature error**
When the temperature of the measuring system deviates from the reference temperature (+20 °C):
max. ±0.4 %/10 K of full scale value

The PI 2 model could be ordered with chrom-plated steel case too.

PI1 Pressure Gauges

ORDERING CODE	Example: PI1	4	B	2	S	B	AT	WA	Note
Dial Size									
0 - 40 mm(1½")									
1 - 50 mm(2")									
2 - 63 mm(2½")									
4 - 100mm(4")									
4									
Connection Type									
B - Back									
B									
Process Connection Sizes									
2 - ¼ NPT Male Dial 40 ¼ NPT Male NS 50, 63 Dial ½ NPT Ns100									
2									
4 - ¼ BSP Male Dial 40 ¼ BSP Male NS 50, 63 Dial ½ BSP Ns100 to 250 mm									
6 - Customer									
Case Design									
S - Steel casing									
S									
C - Chrome-plated steel case									
Tube and Process Connection									
B - Brass									
B									
S - St. steel 304									
I - St. steel 316									
C-Customer									
Accuracy									
AT - 1.6 % (std.)									
AT									
AC - 1 %									
Options									
SC - Single scale									
DS - Dual scales									
YW -316L Stainless steel case									
OS - Overload stop									
UB - U - Bracket for panel mounting									
GF - Glycerine filling									
SF - Safety glass									
SH - Red set hand, stationary (dry case only)									
CC - Calibration certificate									
WA - One year warranty									
WA									
Other									



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Standard Pressure Gauge

Model: PI2

Applications

- General industrial applications
- Pumps and compressors
- Hydraulic and pneumatic systems
- Suitable for fluid medium which does not clog connection port or corrode copper
- Applications requiring large dial sizes for easy readability

Special features

- Reliable and cost-effective
- Black plastic or painted steel case
- Nominal size 40 mm, 50 mm, 63 mm, 100 mm, 160 mm, 200 mm, and 250 mm
- Scale range vacuum up to 1000 bar

Description

- **Accuracy class** 2.5% for 40 and 50 mm dials; 1.6% for 63 to 250 mm dials; 1% (option) for 100 to 250 mm
- **Pressure element** Brass C-type or helical type
Stainless steel 304 and 316 (option)
- **Process connection** Brass back & bottom
NS 63: ¼ BSP, NS 100, 160: ½ BSP, NPT (option)
- **Socket & connection** Brass, Stainless steel 304 and 316 (option)
- **Window** Glass, Plexiglas, Acrylic, (option)
- **Permissible temperature** Ambient: -20 ... +60 °C
Medium: +60 °C
- **Movement** Copper alloy
- **Pointer** Aluminium, black
- **Dial** Aluminium, white, black lettering,
- **Range** 0...10 to 0...15.000 psi;
0...60 to 0...100.000 kPa;
0...0.6 to 0...1000 bar
Vacuum & compound ranges are available. single or double scale dials.



- Pressure limitation**
 - Steady: 3/4 x full scale value
 - Fluctuating: 2/3 x full scale value
 - Short time: Full scale value
- Temperature error**
 - When the temperature of the measuring system deviates from the reference temperature (+20 °C):
 - max. ±0.4 %/10 K of full scale value

The PI 2 model could be ordered with chrom-plated steel case too. Back and front flange accessories are available for wall and panel mounting.

PI2 Pressure Gauges

ORDERING CODE	Example: PI2	4	T	2	S	B	AT	WA	Note
Dial Size									
0 - 40 mm(1½")									
1 - 50 mm(2")									
2 - 63 mm(2½")									
4 - 100mm(4")		4							
6 - 160mm(6")									
8 - 200mm(8")									
10 - 250mm(10")									
Process Connection Type									
T - Bottom			T						
B - Back									
Process Connection Sizes									
2 - ¼ NPT Male Dial 40 ¼ NPT Male NS 50, 63 Dial ½ NPT Ns100 to 250 mm				2					
4 - ¼ BSP Male Dial 40 ¼ BSP Male NS 50, 63 Dial ½ BSP Ns100 to 250 mm									
6 - Customer									
Case Design									
S - Steel casing					S				
C - Chrome-plated steel case									
Tube and Process Connection Material									
B - Brass						B			
S - St. steel 304									
I - St. steel 316									
C - Customer									
Accuracy									
AT - 1.6 % (std.)							AT		
AC - 1 %									
Options									
SC - Single scale									
DS - Dual scales									
YW - 316L Stainless steel case									
OS - Overload stop									
GF - Glycerine filling									
SG - Safety glass									
UC - U - Clamp for flush mounting									
SH - Red set hand, stationary (dry case only)									
BF - Back flange for wall mounting									
MF - Front flange for panel mounting									
CC - Calibration certificate									
NH - Stainless steel tag wired to case									
WA - One year warranty								WA	
Other									



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Standard Pressure Gauge With liquid filling Model: PI5

Applications

- For measuring points with high dynamic pressure loads or vibrations
- Pumps and compressors
- Hydraulic and pneumatic systems
- Suitable for gaseous or liquid media that will not obstruct the pressure system

Special features

- Reliable and cost-effective
- Vibration and shock resistant
- Nominal size 40 mm, 50 mm, 63 mm, 100 mm, 160 mm, 200 mm, and 250 mm
- Scale range vacuum up to 1000 bar

Description

- **Accuracy class** 2.5% for 40 and 50 mm dials; 1.6% for 63 to 250 mm dials; 1% (option) for 100 to 250 mm
- **Pressure element** Brass C-type or helical type
Stainless steel 304 and 316 (option)
- **Process connection** Brass back & bottom
NS 63: ¼ BSP, NS 100, 160: ½ BSP, NPT (option)
- **Socket & connection** Brass, Stainless steel 304 and 316 (option)
- **Window** Glass, Plexiglas, Acrylic, (option)
- **Permissible temperature** Ambient: -20 ... +60 °C
Medium: +60 °C
- **Movement** Copper alloy
- **Pointer** Aluminium, black
- **Dial** Aluminium, white, black lettering,
- **Range** 0...10 to 0...15.000 psi;
0...60 to 0...100.000 kPa;
0...0.6 to 0...1000 bar
Vacuum & compound ranges are available. single or double scale dials.



- Pressure limitation**
 - Steady: 3/4 x full scale value
 - Fluctuating: 2/3 x full scale value
 - Short time: Full scale value

- Temperature error**
 - When the temperature of the measuring system deviates from the reference temperature (+20 °C):
 - max. ±0.4 %/10 K of full scale value

PI5 Pressure Gauges

ORDERING CODE	Example: PI5	4	T	2	L	B	AT	GF	Note
Dial Size									
0 - 40 mm(1½")									
1 - 50 mm(2")									
2 - 63 mm(2½")									
4 - 100mm(4")		4							
6 - 160mm(6")									
8 - 200mm(8")									
10 - 250mm(10")									
Process Connection Type									
T - Bottom			T						
B - Back									
Process Connection Sizes									
2 - ¼ NPT Male Dial 40 ¼ NPT Male NS 50, 63 Dial ½ NPT Ns100 to 250 mm				2					
4 - ¼ BSP Male Dial 40 ¼ BSP Male NS 50, 63 Dial ½ BSP Ns100 to 250 mm									
6 - Customer									
Case Design									
D - Dry									
L - Liquid fill					L				
Tube and Process Connection Material									
B - Brass						B			
S - St. steel 304									
I - St. steel 316									
C - Customer									
Accuracy									
AT - 1.6 % (std.)							AT		
AC - 1 %									
Options									
SC - Single scale									
DS - Dual scales									
YW -316L Stainless steel case									
OS - Overload stop									
GF - Glycerine filling								GF	
SF - Silicone filling									
SG - Safety glass									
UC - U - Clamp for flush mounting									
SH - Red set hand, stationary (dry case only)									
BF - Back flange for wall mounting									
MF - Front flange for panel mounting									
CC - Calibration certificate									
NH - Stainless steel tag wired to case									
AT - ATEX									
WA - One year warranty									
Other									



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All Stainless steel Test Pressure Gauge Model: PT1

Applications

- Calibration Labs
- Test benches
- Test and measurement & Validation
- Testing of industrial type pressure
- For gaseous and liquid aggressive media that are not highly viscous or crystallising, also in aggressive ambience
- 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

- Stabilizer movement
- Anti-glare & Anti-static window
- Knife edge pointer for optimal accuracy of reading
- All stainless steel construction
- Design EN 837-1
- Scale ranges up to 0 ... 1,600 bar

Description

- Accuracy class NS 100, 160,250: 0.25, 0.5, 0.1% (option)
- Pressure element Stainless steel 316L C-type or helical type
Hastelloy, Monel, Tantalum(option)
- Process connection Stainless steel 316L back & bottom
NS 100, 160, 250: ½ NPT, BSP(option)
- Socket & connection 316L st. steel treated
- Window Laminated safety glass Anti-glare & Anti-static
- Permissible temperature Ambient: -40 ... +60 °C without liquid filling
-20 ... +60 °C gauges with glycerine filling
Medium: +200 °C maximum without liquid filling
+100 °C maximum with liquid filling
- Movement Stainless steel with stabilizer
- Pointer Micro - Adjustable with twisted type and counterweight
- Dial Mirrored, single or dual scale
- Protection IP66
- Range 0...10 to 0...30,000 psi;
0...60 to 0...200,000 kPa;
0...0.6 to 0...2,000 bar
Vacuum & compound ranges are available. single or double scale dials.

■ **Pressure limitation**

NS 63: Steady: 3/4 x full scale value
 Fluctuating: 2/3 x full scale value
 Short time: Full scale value
 NS 100, 160: Steady: Full scale value
 Fluctuating: 0.9 x full scale value
 Short time: 1.3 x full scale value

■ **Temperature error**

When the temperature of the measuring system deviates from the reference temperature (+20 °C):
 max. ±0.4 %/10 K of full scale value

PT1 Pressure Gauges

ORDERING CODE	Example:	PT1	6	T	2	D	S	AT	WA	Note
Dial Size										
4 - 100mm(4")										
6 - 160mm(6")			6							
10 - 250mm(10")										
Process Connection										
T - Bottom				T						
B - Back										
Process Connection Sizes										
2 - ½ NPT Male NS100,160, 250 Dial					2					
4 - ½ G Male NS100,160, 250 Dial										
6 - Customer										
Case Design										
D - Dry						D				
L - Liquid fill										
Tube and Process Connection										
S - 316L Stainless steel							S			
M - Monel® 400										
H - Hastelloy										
C - Customer										
Accuracy										
AT - 0.5% (std.)								AT		
AB - 0.25%										
AC - 0.1%										
Options										
SC - Single scale										
DS - Dual scales										
YW - 316L Stainless steel case										
OS - Overload stop										
GF - Glycerine filling										
BF - Back flange for wall mounting										
MF - Front flange for panel mounting										
CC - Calibration certificate										
NH - Stainless steel tag wired to case										
AT - ATEX										
WA - One year warranty									WA	
Other										



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Black Epoxy coated with Externally Adjustable Dial Test Gauge Model: PT2

Applications

- Calibration Labs
- Test benches
- Test and measurement & Validation
- Testing of industrial type pressure
- For gaseous and liquid aggressive media that are not highly viscous or crystallising, also in aggressive ambience
- 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

- Externally adjustable dial
- Micro span adjustment
- Stabilizer movement
- Anti-glare & Anti-static window
- Knife edge pointer for optimal accuracy of reading
- All stainless steel construction
- Design EN 837-1
- Scale ranges up to 0 ... 1,600 bar

Description

- **Accuracy class** NS 100, 160,250: 0.25, 0.5, 0.1% (option)
- **Pressure element** Stainless steel 316L C-type or helical type
Hastelloy, Monel, Tantalum(option)
- **Process connection** Stainless steel 316L back & bottom
NS 100, 160, 250: ½ NPT, BSP(option)
- **Socket & connection** 316L st. steel treated
- **Window** Laminated safety glass Anti-glare & Anti-static
- **Permissible temperature** Ambient: -40 ... +60 °C without liquid filling
-20 ... +60 °C gauges with glycerine filling¹⁾
Medium: +200 °C maximum without liquid filling
+100 °C maximum with liquid filling
- **Movement** Stainless steel with stabilizer
- **Pointer** Micro - Adjustable with twisted type and counterweight
- **Dial** Mirrored, single or dual scale
- **Protection** IP66
- **Range** 0...10 to 0...30,000 psi;
0...60 to 0...200,000 kPa;
0...0.6 to 0...2,000 bar
Vacuum & compound ranges are available. single or double scale dials.

■ **Pressure limitation**

NS 63: Steady: 3/4 x full scale value
 Fluctuating: 2/3 x full scale value
 Short time: Full scale value
 NS 100, 160: Steady: Full scale value
 Fluctuating: 0.9 x full scale value
 Short time: 1.3 x full scale value

■ **Temperature error**

When the temperature of the measuring system deviates from the reference temperature (+20 °C):
 max. ±0.4 %/10 K of full scale value

PT2 Pressure Gauges

ORDERING CODE	Example:	PT2	6	T	2	D	S	AT	WA	Note
Dial Size										
4 - 100mm(4")										
6 - 160mm(6")			6							
10 - 250mm(10")										
Process Connection										
T - Bottom				T						
B - Back										
Process Connection Sizes										
2 - 1/2 NPT Male NS100,160, 250 Dial					2					
4 - 1/2 G Male NS100,160, 250 Dial										
6 - Customer										
Case Design										
D - Dry						D				
L - Liquid fill										
Tube and Process Connection										
S - 316L Stainless steel							S			
M - Monel® 400										
H - Hastelloy										
C - Customer										
Accuracy										
AT - 0.5% (std.)								AT		
AB - 0.25%										
AC - 0.1%										
Options										
SC - Single scale										
DS - Dual scales										
YW - 316L Stainless steel case										
OS - Overload stop										
GF - Glycerine filling										
BF - Back flange for wall mounting										
MF - Front flange for panel mounting										
CC - Calibration certificate										
NH - Stainless steel tag wired to case										
AT - ATEX										
WA - One year warranty									WA	
Other										



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All Stainless steel Heavy Duty Pressure Gauge Model: PU1

Applications

- For gaseous and liquid aggressive media that are not highly viscous or crystallising, also in aggressive ambience
- 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

- According to NACE MR 0175 & MR0103 standard
- Stabilizer movement
- Anti-glare & Anti-static window
- Excellent load-cycle stability and shock resistance
- All stainless steel construction
- Design EN 837-1
- Scale ranges up to 0 ... 1,600 bar



Description

- | | |
|---------------------------|---|
| ■ Accuracy class | NS 63: 1.6 NS 100, 160: 1.0, 0.5% (option) |
| ■ Pressure element | Stainless steel 316L C-type or helical type
Hastelloy, Monel, Tantalum(option) |
| ■ Process connection | Stainless steel 316L back & bottom
NS 63: ¼ NPT, NS 100, 160: ½ NPT, BSP (option) |
| ■ Socket & connection | 316L st. steel treated to comply with NACE MR0175&
MR 0103 standards |
| ■ Window | Laminated safety glass Anti-glare & Anti-static |
| ■ Permissible temperature | Ambient: -40 ... +60 °C without liquid filling
-20 ... +60 °C gauges with glycerine filling
Medium: +200 °C maximum without liquid filling
+100 °C maximum with liquid filling |
| ■ Movement | Stainless steel with stabilizer |
| ■ Pointer | Aluminium, black |
| ■ Dial | Aluminium, white, black lettering, |
| ■ Protection | IP66 |
| ■ Range | 0...10 to 0...30,000 psi;
0...60 to 0...200,000 kPa;
0...0.6 to 0...2,000 bar
Vacuum & compound ranges
are available. single or double scale dials. |

- Pressure limitation**

NS 63:	Steady:	3/4 x full scale value
	Fluctuating:	2/3 x full scale value
	Short time:	Full scale value
NS 100, 160:	Steady:	Full scale value
	Fluctuating:	0.9 x full scale value
	Short time:	1.3 x full scale value

- Temperature error**

When the temperature of the measuring system deviates from the reference temperature (+20 °C):
max. ±0.4 %/10 K of full scale value

Socket of PU1 series is welded to its case and the socket and its measuring element are made of 316L stainless steel and treated to meet NACE MR0-175 and NACE MR 0103 , which make them resistant to hydrogen sulfide stress corrosion cracking. The design and manufacturing is according to EN873-1 standards. Having internal overpressure/ vacuum stop and dampening screw are other features of PU1 Series.

PU1 Pressure Gauges

ORDERING CODE	Example:	PU1	4	T	2	L	S	AT	WA	Note
Dial Size										
2 - 63 mm(2 ^{1/2} "										
4 - 100mm(4")			4							
6 - 160mm(6")										
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 Design										
D - Dry										
L - Liquid fill						L				
Tube and Process Connection Material										
S - 316L Stainless steel							S			
M - Monel® 400										
H - Hastelloy										
C - Customer										
Accuracy										
AT - 1% (std.)								AT		
AC - 0.5%										
Options										
SC - Single scale										
DS - Dual scales										
YW - 316L Stainless steel case										
OS - Overload stop										
GF - Glycerine filling										
QC - Low temperature silicone filling for ambient temperature down to -94°F (-70°C), including Fluorosilicone sealing										
SH - Red set hand, stationary (dry case only)										
BF - Back flange for wall mounting										
MF - Front flange for panel mounting										
CC - Calibration certificate										
NH - Stainless steel tag wired to case										
AT - ATEX										
WA - One year warranty									WA	
Other										



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All Stainless steel Solid Front Pressure Gauge Model: PU2

Applications

- Increased safety requirements for personal protection
- With liquid-filled case for applications with high dynamic pressure loads or vibrations
- For gaseous and liquid aggressive media that are not highly viscous or crystallising, also in aggressive ambience
- 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

- According to NACE MR 0175 & MR 0103 standard
- Stabilizer movement
- Anti-glare & Anti-static window
- Excellent load-cycle stability and shock resistance
- All stainless steel construction
- Design EN 837-1
- Scale ranges up to 0 ... 2,500 bar

Description

- | | |
|---------------------------|---|
| ■ Accuracy class | NS 63: 1.6 NS 100, 160: 1.0, 0.5% (option) |
| ■ Pressure element | Stainless steel 316L C-type or helical type
Hastelloy, Monel, Tantalum(option) |
| ■ Process connection | Stainless steel 316L bottom
NS 63: ¼ NPT, NS 100, 160: ½ NPT, BSP (option) |
| ■ Socket & connection | 316L st. steel treated to comply with NACE MR 0175&
MR 0103 standards |
| ■ Blow out back | Full baffle wall ; 304SS |
| ■ Gasket | EPDM |
| ■ Window | Laminated safety glass Anti-glare & Anti-static |
| ■ Permissible temperature | Ambient: -40 ... +60 °C without liquid filling
-20 ... +60 °C gauges with glycerine filling
Medium: +200 °C maximum without liquid filling
+100 °C maximum with liquid filling |
| ■ Movement | Stainless steel with stabilizer |
| ■ Pointer | Aluminium, black |
| ■ Dial | Aluminium, white, black lettering, |
| ■ Protection | Ip66 |
| ■ Range | 0...10 to 0...36259 psi;
0...60 to 0...250.000 kPa;
0...0.6 to 0...2,500 bar
Vacuum & compound ranges
are available. single or double scale dials. |





- Pressure limitation**

NS 63:	Steady:	3/4 x full scale value
	Fluctuating:	2/3 x full scale value
	Short time:	Full scale value
NS 100, 160:	Steady:	Full scale value
	Fluctuating:	0.9 x full scale value
	Short time:	1.3 x full scale value

- Temperature error**

When the temperature of the measuring system deviates from the reference temperature (+20 °C):
max. ±0.4 %/10 K of full scale value

Socket of PU2 series is welded to its case and the socket and its measuring element are made of 316L stainless steel and treated to meet NACE MR0-175 and NACE MR 0103 , which make them resistant to hydrogen sulfide stress corrosion cracking. The design and manufacturing is according to EN873-1 standard. Having internal overpressure/ vacuum stop and dampening screw are other features of PU2 Series.

PU2 Pressure Gauges

ORDERING CODE	Example:	PU2	4	T	2	L	S	AT	WA	Note
Dial Size										
2 - 63 mm(2 1/2")										
4 - 100mm(4")			4							
6 - 160mm(6")										
Process Connection Type										
T - Bottom				T						
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 Design										
D - Dry										
L - Liquid fill						L				
Tube and Process Connection Material										
S - 316L Stainless steel							S			
M - Monel® 400										
H - Hastelloy										
C - Customer										
Accuracy										
AT - 1% (std.)								AT		
AC - 0.5%										
Options										
SC - Single scale										
DS - Dual scales										
YW - 316L Stainless steel case										
OS - Overload stop										
GF - Glycerine filling										
QC - Low temperature silicone filling for ambient temperature down to -94°F (-70°C), including Fluorosilicone sealing										
SH - Red set hand, stationary (dry case only)										
BF - Back flange for wall mounting										
MF - Front flange for panel mounting										
CC - Calibration certificate										
NH - Stainless steel tag wired to case										
AT - ATEX										
WA - One year warranty									WA	
Other										





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Tel: +16472221281(5 line)

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Sanitary Diaphragm Pressure Gauge

Model: PD2

Applications

- Filtration, Food and Dairy, Biotech, Calibration Labs
Field Inspection
- Hygienic pressure measurement for the pharmaceutical and biotechnology industries
- Mechanical pressure display on pipelines, fermenters, bioreactors and vessels.
- Pressure display during processing and transport of high-quality and critical media
- Suitable for the production of active pharmaceutical ingredients (API)
- For gases, vapour; liquid, pasty, powdery and crystallising media

Special features

- According to NACE MR 0175 & MR0103 standard
- Stabilizer movement
- Anti-glare & Anti-static window
- Excellent load-cycle stability and shock resistance
- All stainless steel construction
- Design EN 837-3
- High Scale ranges up to 40 ... 600 bar
Low Scale ranges up to 16 mbar ... 40 bar
- Completely autoclavable, suitable for CIP and SIP

Description

- | | |
|---------------------------|--|
| ■ Accuracy class | NS 63: 2.5 NS 100, 160: 1.6, 0.1% (option) |
| ■ Diaphragm | Stainless steel 316L
Hastelloy, Monel, Tantalum(option) |
| ■ Process connection | Tri-clamp® diaphragm (3A std.),
Bottom Matting part, Clamp &
gasket must be ordered (option) |
| ■ Diaphragm size | 1½", 2" and 2½"; see ordering. |
| ■ Window | Plexiglass (for 2½" dial), safety glass (for 4" dial) |
| ■ Permissible temperature | Ambient: -40 ... +60 °C without liquid filling
-20 ... +60 °C gauges with glycerine filling ¹
Medium: +140 °C maximum without liquid filling
+100 °C maximum with liquid filling |
| ■ Movement | Stainless steel |
| ■ Pointer | Aluminium, black |
| ■ Dial | Aluminium, white, black lettering, |
| ■ Protection | IP65 |
| ■ Range | 0...16 cmH ₂ O to 0...250 mH ₂ O;
0...1.6 to 0...2500 kPa;
0...16 mbar to 0...25 bar
Vacuum and high range
ranges are available |





- Pressure limitation**
 - NS 63: Steady: 3/4 x full scale value
Fluctuating: 2/3 x full scale value
Short time: Full scale value
 - NS 100, 160: Steady: Full scale value
Fluctuating: 0.9 x full scale value
Short time: 1.3 x full scale value
- Temperature error**
 - When the temperature of the measuring system deviates from the reference temperature (+20 °C):
max. ±0.4 %/10 K of full scale value

The diaphragm seal is integrally built with the gauge and can be connected to the process with a quick-connection clamp and mating part which should be ordered separately. The sealing fluid is food grade oil and process temperature can be as high as 140°C; suitable for autoclaves, etc. The case of PD2 Series of pressure gauges is fine polished stainless steel to control bacteria accumulation on the case and suitable for applications in critical food processing. Standards followed in manufacturing of Pd2 Series are according to EN-837-3.

PD2 Diaphragm Pressure Gauges

ORDERING CODE	Example:	PD2	4	T	2	L	S	AT	WA	Note
Dial Size										
2 - 63 mm(2½")										
4 - 100mm(4")			4							
6 - 160mm(6")										
Process Connection Type										
T - Bottom				T						
B - Back										
Process Connection Sizes										
2 - 1½ Tri-clamp					2					
4 - 2 Tri-clamp										
6 - 2½ Tri-clamp										
8 - Customer										
Case Design										
D - Dry										
L - Liquid fill						L				
Process Connection Material										
S - 316L Stainless steel							S			
M - Monel 400®										
H - Hastelloy										
C - Customer										
Accuracy										
AT - 1.6% (std.)								AT		
AC - 1%										
Options										
SC - Single scale										
DS - Dual scales										
YW - 316L Stainless steel case										
OS - Overload stop										
GF - Glycerine filling										
QC - Low temperature silicone fill for ambient temperature down to -94°F (-70°C), including Fluorosilicone sealing										
SH - Red set hand, stationary (dry case only)										
PF - PTFE connection and diaphragm foil										
FS - 5 * F.S. overpressure										
NC - NACE MR 0175 & MR 0103 standard										
ST - Stabilizer movement										
AN - Anti-glare & Anti - static window										
CC - Calibration certificate										
NH - Stainless steel tag wired to case										
AT - ATEX										
WA - One year warranty									WA	
Other										





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