

BATTERY POWERED DIGITAL PRESSURE GAUGE TYPE 3319 and 3320



Nominal size 80

7-segment LCD

Class 0,25 stainless steel sensor

Class 0,5 ceramic sensor



Description

The battery-operated digital manometers are suitable for recording the pressure of liquids, oils and gases.

The robust stainless steel housing and the battery supply allow flexible use.

The display housing can be rotated so that good readability is guaranteed even under unfavorable installation conditions.

The devices have the option of zero point and end point calibration.

Applications

- Mechanical engineering and plant construction
- Hydraulics and pneumatics
- Laboratory technology
- Environmental engineering - especially water, sewage, recycling

Special characteristics

- Housing rotatable
- 2-line LC-display
4,5-digit 7-segment-display
6-digit 14-segment-additional display
- Setting of different pressure units
- Min-/Max-function with reset function

Measuring ranges

- Type 3319
0...400 mbar up to 0...600 bar
- Type 3320
0...100 mbar up to 0...600 bar



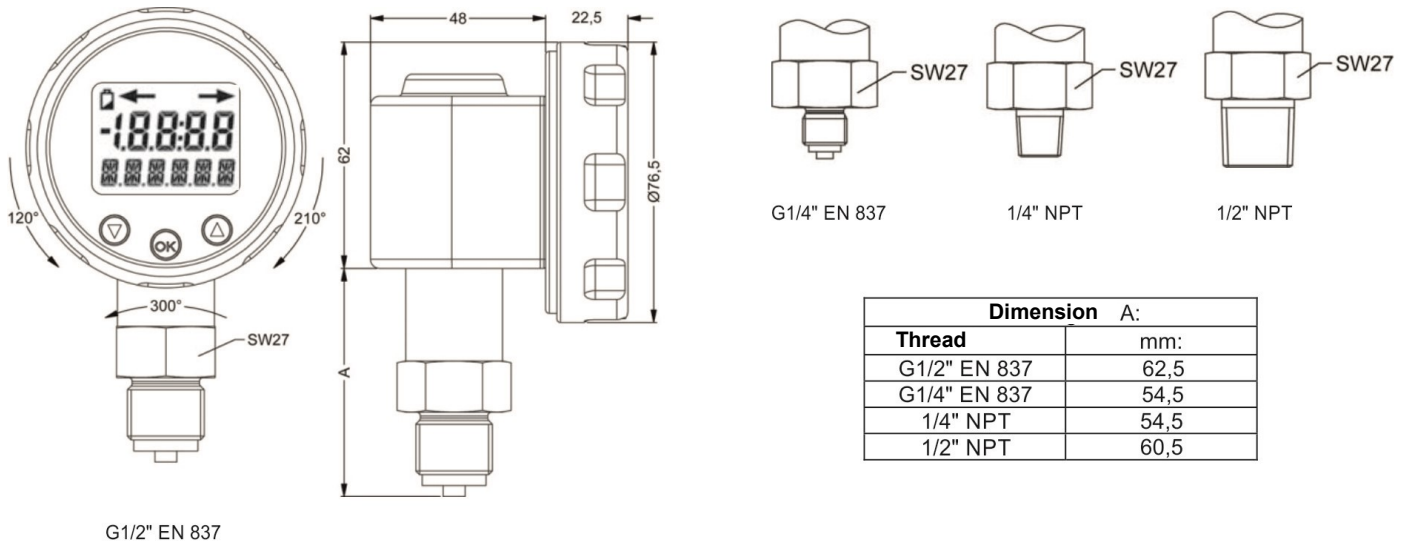
DRUCK & TEMPERATUR

Technical data

Type	3319	3320			
Nominal size	NS 80				
Accuracy	0,5% FS IEC 60770		0,25% FS IEC 60770		
Ranges Nominal pressure, overload, burst pressure see page 3	0...400 mbar up to 0...600 bar		0...100 mbar up to 0...600 bar		
Long term stability	≤ ± 0,1 % FSO / year under reference conditions				
Measuring rate	5/s				
Thermal effects	≤ ± 0,2% FSO / 10 K in compensated range -25°C...85°C	PN in bar	-1...0	≤ 0,40	> 0,40
		Tolerance band %	≤ ± 0,75	≤ ± 1	≤ ± 0,75
		°C comp. range	-20...85°C	0...70°C	-20...85°C
Material process connection Material housing	1.4404 PA 6.6, Polycarbonate				
Seals (wetted parts)	FKM				
Diaphragm	Ceramic Al ₂ O ₃ 96%		1.4435		
Thread	Standard: G1/2 EN 837, optional G1/4 EN 837, 1/4"NPT, 1/2"NPT				
Installation position	any (The digital manometers are calibrated vertically with the installation position facing down. When changing the installation position at PN ≤ 1 bar there may be slight shifts in the zero point.)				
Display	LC-Display, visible range 40 x 30 mm 4,5-digit 7-segment-main display, digit height 11 mm, range of indication ±19999; 6-digit 14-segment-additional display, digit height 7,5 mm				
Electromagnetic compatibility	Emitted interference and immunity to interference according to EN 61326				
Power supply	3,6 V Lithium-battery, 2 pieces (AA)				
Operational life of battery	Standby mode: approximately 5 years				
Mech. operational life	100 million load cycles				
Mechanical stability Vibration Shock	5 g RMS (25...2000 Hz) acc. to DIN EN 60068-2-6 100 g / 1 ms acc. to DIN EN 60068-2-27				
Protection class	IP 65				
Permissible temperatures	Medium: -20°C...85°C Ambient: -20°C...70°C Storage: -30°C...80°C				
Weight	approx. 300 g				

Type 3319, 3320

Dimensional drawings, Dimensions in mm



Input pressure ranges 3319

Nominal pressure rel.	bar	0,4	0,6	1	1,6	2,5	4	6	10	16	25	40	60	100	160	250	400	600
Nominal pressure abs.	bar	-	0,6	1	1,6	2,5	4	6	10	16	25	40	60	100	160	250	400	600
Overload	bar	1	2	2	4	4	10	10	20	40	40	100	100	200	400	400	600	600
Burst pressure	bar	2	4	4	5	5	12	12	25	50	50	120	120	250	500	500	650	880
Vacuum pressure	-1...0 bar, overload: 4 bar, burst pressure: 7 bar																	
Vacuum resistance	P _N ≥ 1 bar: unlimited vacuum resistance P _N < 1 bar: on request																	

Input pressure ranges 3320

Nominal pressure rel.	bar	0,10	0,16	0,25	0,40	0,60	1	1,6	2,5	4	6
Nominal pressure abs.	bar	-	-	-	0,40	0,60	1	1,6	2,5	4	6
Overload	bar	0,5	1	1	2	5	5	10	10	20	40
Burst pressure	bar	1,5	1,5	1,5	3	7,5	7,5	15	15	25	50
Nominal pressure rel./abs.	bar	10	16	25	40	60	100	150	250	400	600
Overload	bar	40	80	80	105	105	210	600	1050	1050	1250
Burst pressure	bar	50	120	120	210	210	420	1000	1250	1250	1250
Vacuum pressure	-1...0 bar, overload: 5 bar, burst pressure: 7,5 bar										
Vacuum resistance	P _N ≥ 1 bar: unlimited vacuum resistance P _N < 1 bar: on request										