

CCM-P-05P



- battery powered digital pressure gauge
- for viscous and pasty media
- nominal pressure: from 0...60 bar up to 0...400 bar
- stainless steel diaphragm flush welded
- accuracy 0.5 % span
- rotatable housing Ø 76,5 mm
- 2-line LC display: 4.5-digit 7-segment + 6-digit 14-segment additional
- min / max function with reset
- offset and end point calibration
- setting the pressure unit
- configuration of switch-off automatic

The battery-powered digital pressure gauge CCM-P-05P with flush welded stainless steel diaphragm enables a local displaying of values in applications, where high requirements on hygienic process connections and easy cleaning or sterilisability are requested. The filling medium is food compatible oil with FDA approval.

The CCM-P-05P display housing is rotatable, thus ensuring an easy reading even under unfavourable mounting conditions.

Additional functions:

- changing unit,
- displaying min / max values,
- calibrating the offset and the end point,
- configuring the automatic switching-off.

PREFERRED AREAS OF USE ARE



Food Industry



Plant and Machine Engineering

TECHNICAL DATA

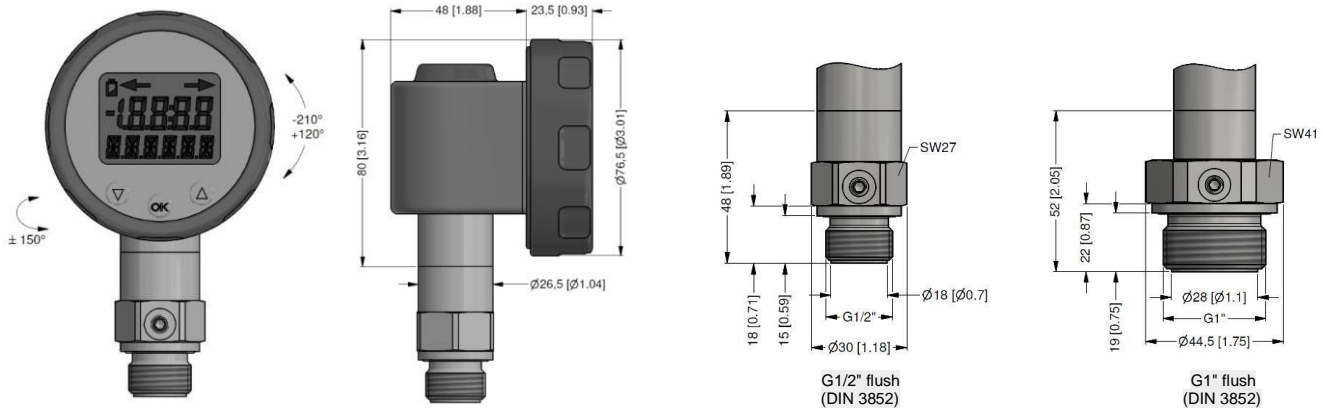
Input pressure range						
Nominal pressure gauge / abs.	[bar]	60	100	160	250	400
Overpressure	[bar]	100	200	400	400	600
Burst pressure	[bar]	120	250	500	500	650
Performance						
Accuracy ¹		± 0.5 % span				
Measuring rate		5/sec				
¹ accuracy according to EN IEC 62828-2 – (non-linearity, hysteresis, repeatability)						
Thermal effects (Offset and Span)						
Tolerance band	[% span]	± 0.2 % span / 10 K				
In compensated range	[°C]	0 ... 70				
Permissible temperatures ²	medium:	-40 ... 125 °C for filling fluid silicon oil				
		-10 ... 125 °C for filling fluid food compatible oil				
	environment:	-20 ... 70 °C				
	storage:	-30 ... 80 °C				
² max temperature of the medium for nominal pressure gauge > 0 bar: 150 °C for 60 minutes with a max. environmental temperature of 50 °C						
Mechanical stability						
Vibration		5 g RMS (25 ... 2000 Hz)	according to IEC 60068-2-6			
Shock		100 g / 1 msec	according to IEC 60068-2-27			
Materials / Filling fluids						
Housing		stainless steel 1.4404 (316L)				
Pressure port		stainless steel 1.4435 (316L)				
Display housing		PA 6.6, Polycarbonate				
Seals (media wetted)		FKM				
Diaphragm		stainless steel 1.4435 (316L)				
Media wetted parts		pressure port, seals, diaphragm				
Filling fluids		standard: silicon oil option: food compatible oil with 21CFR178.3570 certificate (Mobil SCH Cibus 32; Category Code: H1; NSF Registration No.: 141500) others on request				



Miscellaneous	
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	emission and immunity according to EN 61326
Supply	3.6 V lithium battery; 2 piece (1/2 AA)
Data storage	EEPROM (non-volatile)
Ingress protection	IP 65
Installation position	any (standard calibrating in a vertical position with the pressure connection down)
Weight	min. 350 g (depending on pressure port)
AD-converter solution	14 Bit
Operational life of battery	Standby-Modus: approx. 5 years
Mechanical operational life	100 million load cycles
CE-conformity	EMC directive: 2014/30/EU pressure equipment directive: 2014/68/EU (Module A) ³

³ This directive is only valid for devices with maximum permissible overpressure > 200 bar.

DIMENSION DRAWINGS



ORDER CODE

CCM-P-05P- [] - [] - [] - [] - 0 - [] - 0 K 0 - [] - [] - [] - N - [] - []

Pressure																					
Gauge		M	0	5																	
Absolute		M	0	6																	
Input [bar]																					
0 ... 60					6	0	0	2													
0 ... 100					1	0	0	3													
0 ... 160					1	6	0	3													
0 ... 250					2	5	0	3													
0 ... 400					4	0	0	3													
Customer					9	9	9														
Accuracy																					
0,5 %									5												
Customer									9												
Mechanical connection																					
G 1/2" DIN with flush welded diaphragm (only for P _N 1 bar)										Z	0	0									
G 1" DIN 3852 with flush welded diaphragm										Z	3	1									
Customer										9	9	9									
Seals																					
FKM													1								
Customer													9								
Diaphragm																					
Stainless steel 1.4435 (316 L)														1							
Customer														9							
Filling fluids																					
Silicone oil																				1	
Food compatible oil																				2	
Customer																				9	
Special version																					
Standard																					0 0 0
Customer																					9 9 9
Accessories																					
Battery (2 pcs needed)																					1000377

Manufacturer reserves the right to change sensor specifications without further notice.