This data sheet contains product specification, properties are not guaranteed. Subject to change without notice



SGM/HC

Food and Beverage Industry

Features

- Measuring ranges from 0.1bar to 10bar
- Absolute, gauge
- Accuracy: $\pm 0.25\%$ FSO or $\pm 0.5\%$ FSO
- Calibrated and temperature compensated
- Flush diaphragm construction
- capacitive ceramic sensor elemen
- Variety of Pressure & Electrical connections
- Output 4...20mA, 0...10V and others

Product Overview

SGM/HC is made from high-quality ceramic capacitive sensor. All process connections of the flush pressure transmitter are made of stainless steel. The SGM/HC is precision engineered to fit food, pharmaceutical and chemical liquid pressure measurement.

A wide range of process connection and electrical connection options are available to meet almost requirement

Standard Pressure Ranges

Nominal pressure	gauge	sealed gauge	absolute
00.1bar	•		
00.16bar	•		
00.25bar	•		
00.4bar	•		
00. 6bar	•		•
01bar	•		•
01.6bar	•		•
02.5bar	•		•
06bar	•		•
010bar	•		•

Other pressure ranges available. Please consult the factory.

Applications

- Process control systems
- Food and beverage
- Medical
- Papermaking

Flush Diaphragm Pressure Transmitter

Performance Specifications

Parameter	Value			Units	Notes	
General						
Pressure Range	0-0.1,,10			bar	1bar=14.5	psi
Overpressure	1.5xFS			bar		
Environmental						
Operating Temperature Range	-20 to +85			°C	-4°F to 18	5°F
Compensated Temperature Range	-10 to +70			°C	14°F to 15	8°F
Storage Temperature Range	-40 to +125			°C	-40°F to 257°F	
Vibration	10			g	20 to 2000Hz	
Shock	100			g	10ms	
Cycles	10x10 ⁵			cycles		
Electrical @25°C(77°F)						
Output Signal	420mA	05Vdc	15Vdc	010Vdc	0.54.!	5Vdc(ratiometric
Power Supply(Vs)	1236Vdc	1236Vdc	1236Vdc	1536Vdc	5Vdc	
Load Resistance	<(Vs-12)/0.02	2A (For current	output), >10k	Ω (For voltage	output)	
Insulation Resistance	100MΩ@50Vdc					
Physical Specifications						
Media Compatibility	All media con	npatible with ce	eramic and 304	stainless steel	Ì	
Housing	304 stainless steel					
Diaphragm	ceramic Al_2O_3 96%					
Seal Ring	Viton or NBR					
Oil Filling	no					
Protection	IP65(Standar	d)				
Net Weight	Approx.300g					
Parameter	Minimum	Typical	Maximi	um Units	5	Notes
Performance						
Accuracy	0.1	0.25	0.5	%FSC)	1,2
Temp Coeff - Zero		±1.5	±2	%FS0)	3
Temp Coeff - Span		±1.5	±2	%FS0)	3
Long-Term Stability		±0.2	±0.3	%FS(O/year	1
Notes						

- 1. All values measured at 25°C(77°F)
- 2. Including non-linearity, hysteresis and repeatability.
- 3. -10°C to 70° C(14° F to 158° F) with reference to 25° C(77° F).

 $The\ listed\ specifications\ and\ dimensions\ are\ subject\ to\ change\ without\ prior\ notice.$

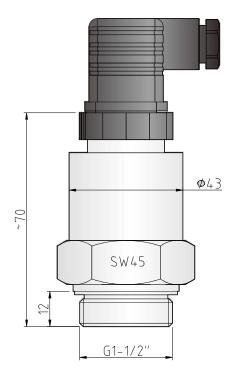
Connection Diagrams

Connector DIN43650				
		2-wire(current)	3-wire(voltage)	
	Supply+	1	1	
	Signal+	2	3	
	Gnd	-	2	

Cable outlet			
		2-wire(current)	3-wire(voltage)
	Supply+	red	red
	Signal+	black	green
	Gnd	-	black

Flush Diaphragm Pressure Transmitter

Dimensions (in mm)



Ordering Information

Option1									
GM/HC					itter				
		ption2: Pressure Ranges							
	0010					02.5bar			
	0016				0400 04bar				
	0025	00.2			0600 06bar				
	0040	00.4							
	0060	00.6			Cxxx	Customiz	ed range		
	0100	01.0							
	0160	01.6							
				ssure Ty	/pe				
		G	gauge						
		Α	absolu	te					
			4: Output Signal						
			42	420n					
				05Vc					
			15	15Vc					
			10	010\					
			45		.5(ration				
					n5: Ac				
					02				
				05					
					D		or DIN43650		
					M	M12x1			
					С	Cable outlet with PVC-cable,length=1.5m			
					Option7: Mechanical Connection				
						G15	G1-1/2(male) Nx Customized		