

Description

The 500G pressure sensor employs a 316L stainless steel mono-block structure (17-4ph SS available as an option), and is designed for high pressure applications. Thanks to the mono-block structure, the sensor has excellent resistance to overload pressure - proof pressure up to 300%fs and burst pressure up to 500%fs. And this structure prevents pressure medium from leakage to the backside of the sensor. In addition, there is no any O-ring needed inside the sensor structure for sealing purpose.

On the pressure diaphragm of the 500G-series pressure sensors, the Wheatstone bridge circuit is built with BCM silicon (Si) strain gauges via glass-frit bonding process, resulting in a creep free behavior of the sensors. Compared to the 664F-series pressure sensors which are based on metal foil strain gauge technology, the 500G-series sensors offer higher output sensitivity (up to 15mV/V).

The 500G is mostly used for pressure transmitter applications for high pressure measurement.

Features

- rugged and mono-block structure
- sensor body made from 316LSS (or 17-4ph SS)
- glass-frit bonded Si strain gauges
- accuracy up to 0.35%fs
- measuring ranges: 5bar, ..., 5000bar
- proof pressure: up to 300%fs
- burst pressure: up to 500%fs
- compensated temperature range: -20~+85 °C

Applications

- industrial controls
- · hydraulic systems
- compressors
- process control systems



Environmental Specifications

- position effect: < 0.1% of zero offset shift in any direction
- vibration effect: no change at 10 g (RMS),
 20~2000 Hz
- shock: 100 g, for 10 millisecond

Tel.: +32-3-238 6469

Fax: +32-3-238 4171



Technical Data

Parameters		Units	Specifications				
pressure medium			gases or dilute fluids	1			
	316L (standard)	bar	0~5, ~10, ~16, ~25, ~40, ~60, ~100, ~160, ~250, ~400, ~600, ~1000				
measuring ranges	STOL (Standard)	psi	0~60, ~150, ~200, ~300, ~400, ~500, ~600, ~1000, ~1500, ~2000, ~3000, ~4000, ~5000, ~6000, ~7500, ~10000, ~15000				
		bar	0~25, ~40, ~60, ~100, ~160, ~250, ~400, ~600, ~1000, ~1600, ~2500, ~4000, ~5000	2			
	17-4ph (option)	psi	0~300, ~400, ~500, ~600, ~1000, ~1500, ~2000, ~3000, ~4000, ~5000, ~6000, ~7500, ~10000, ~15000, ~20000, ~30000, ~50000, ~75000				
pressure reference			gauge				
proof pressure	316L	%fs	150	3			
proof pressure	17-4ph	%fs	300; for ranges ≥ 1000bar or 15000psi refers to note 4	4			
huret proceure	316L	%fs	500				
burst pressure	17-4ph	%fs	500; for ranges ≥ 1000bar or 15000psi refers to note 5	5			
output sensitivity		mV/V	≥ 15; for ranges ≥ 1000bar or 15000psi refers to note 6				
excitation		Vdc	3,, 10				
zero offset		mV	≤ ±1				
accuracy		%fs	±0.35 only available for ranges ≤ 1000bar (or 20000psi), ±0.5 (standard)				
long-term stability	long term stability		≤ ±0.2				
input resistance		%fs/year kΩ	5±2				
output resistance		kΩ	4±1				
insulation resistance		ΜΩ	100 @250Vdc				
compensated tempe	rature range	°C	-20 ~ +85				
operating temperature range		°C	-40 ~ +125				
	storage temperature range		-40 ~ +125				
temperature coefficient of zero offset		%fso/°C	≤ ±0.03				
temperature coefficient of span		%fso/°C	≤ ±0.03				
life time		cycles	10 ⁸				
response time		ms	≤1				
process sealing			O-ring (fluorine rubber)				
mechanical interface			G1/4 male, G1/2 male, M20x1.5, M22x1.5				
electrical interface			solder pads (standard for output of mV/V)				
			4 colored silicone flexible wires, 100mm				
			4 pins (standard for amplified output, e.g., 4~20mA, 0.5~4.5V)				
pressure diaphragm			316L SS (standard), 17-4ph SS				
wetted parts material			316L SS (standard), 17-4ph SS				
net weight		gram	~60				

General conditions for measurements: media temp. = 25° C $\pm 1^{\circ}$ C, ambient temp. = 25° C $\pm 1^{\circ}$ C, humidity = 50%RH $\pm 5\%$ RH, barometric pressure: $860\sim1060$ mbar, max. vibration = 0.1 g (i.e. 0.98m/s/s).

Notes: 1. The pressure medium should be compatible with wetted parts material and pressure diaphragm.

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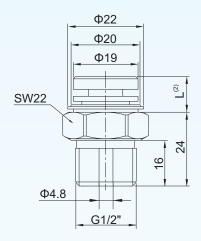
website: www.bcmsensor.com email: sales@bcmsensor.com



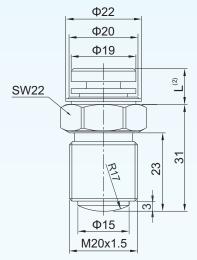
Notes: 2. For customized pressure ranges, consult BCM.

- 3. "fs" refers to full scale pressure or rated pressure.
- 4. Proof pressure of 150%fs is for ranges ≥ 1000bar or 15000psi.
- 5. Bust pressure of 300%fs for [1000bar ≤ ranges ≤ 2500bar] or [15000psi ≤ ranges ≤ 30000psi], 250%fs for ranges of 4000bar or 50000psi, 200%fs for range of 5000bar, 190%fs for ranges of 75000psi.
- 6. Output sensitivity of ≥ 10mV/V for [1000bar ≤ ranges ≤ 1600bar] or [15000psi ≤ ranges ≤ 30000psi], ≥ 5mV/V for ranges ≥ 2500bar or 50000psi.
- 7. Options for the output signal: 0.5~4.5 Vdc ratiometric, 4~20 mA, I²C, SPI.
- 8. Accuracy = sqrt (non-linearity² + hysteresis² + repeatability²).
- 9. Calculated as a rate of output change between -20°C and +85°C, and normalized by the output at 25°C, for the sensor which is temperature compensated.
- 10. Response time for a 0 bar to fs step change, 10% to 90% rise time.
- 11. G1/4 male threads is standard for ranges ≤ 1600bar; G1/2 male threads is standard for ranges > 1600bar. Semi-sphere surface as surface contact seal at process connection is available on request.

Dimensions



Dimensions of 500G with G1/2" threads



Dimensions of 500G ≥ 600bar with M20x1.5 threads and semi-sphere surface

Notes: 1. All dimensions in mm.

- 2. L = 12.3mm in case the ranges < 250bar; L = 10.5mm in case the ranges \geq 250bar.
- 3. When ranges ≥ 600bar, the semi-sphere surface will be applied as standard. And it is suggested to choose either M20x1.5 or G1/2 threads. For any customized mechanical interface, consult BCM SENSOR.
- 4. The dimensions of the PCB or SSC circuit are not included in the drawings above. The diameter of the PCB is Φ19mm, and the height of the PCB will depend on its functionality.

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Ordering Information

17.4ph: 25bar G 600bar G 300psi G 3000psi G 6000psi G 600bar G 600bar G 150psi G 1500psi G 6000psi G 6000psi G 16bar G 250bar G 200psi G 1500psi G 7500psi G 25bar G 200psi G 300psi G 200psi G 160bar G 250bar G 200psi G 1500psi G 1500psi G 750psi G 10000psi G 40bar G 300psi G 2000psi G 15000psi G 15000psi G 40bar G 1000bar G 500psi G 3000psi G 15000psi G 15000psi G 40bar G 1000bar G 500psi G 3000psi G 2000psi G 15000psi G 40bar G 1000bar G 500psi G 4000psi G 30000psi G 60bar G 160bar G 1000bar G 500psi G 5000psi G 30000psi G 60bar G 160bar G 160bar G 500psi G 5000psi G 50000psi G 600bar G 160bar G 500psi G 5000psi G 50000psi G 600bar G 160bar G 500psi G 5000psi G 50000psi G 600bar G 160bar G 500psi G 5000psi G 5000psi G 50000psi G 600bar G 160bar G 400bar G 1000psi G 7500psi G 75000psi G 250bar G 5000bar G 1500psi G 1000psi G 7500psi G 250bar G 5000bar G 1500psi G 1000psi G 7500psi G 250bar G 5000bar G 1500psi G 1000psi G 7500psi G 1500psi		1: model	n (pos.) 1:	osition	1									
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FW: flying wires, silicone, 100mm														
pos. 9: customized specifications														
		-41												
"(*)" is necessary only if any customized parameter is red it is neglectable.											y if arily custom	izeu parameter is required	, otherwise	
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Examples of Ordering Code

• standard sensor:

500G-100barG-15mV/V-0.5%fs-T2-316L-G1/2-SP

• customized sensor:

500G-2500psiG-10%/90%Vs-0.5%fs-T2-17/4ph-G1/4-FW-(*)

(*): Customized range = 2500psiG; Customized output = 10%/90%Vs ratiometric.

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

B C C CERTIFIED ISO 9001,2008

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