Model 132C
Ceramic Pressure Transmitters with Flush Diaphragm

Description

The 132C is a general-purpose pressure transmitter base on the BCM ceramic pressure sensor. The 132C features a flush diaphragm process connection and is specially designed for measurement of viscous fluids or media containing solids.

The 131C consists of a ceramic diaphragm, stainless steel or PVDF wetted part, and stainless steel housing. With numerous options of process connection and electrical interface, the model can be fitted into most common systems. Available pressure reference includes gauge, absolute, and sealed gauge.

By selecting proper electrical interface, the 132C is able to reach the environmental protection rating up to IP67.

Due to its compact and rugged design, this model is suitable for applications of processing and control operations such as hydraulics, pneumatics, test equipment, liquid level measurement, compressor and pump control, etc.

Features

- high chemical resistance
- measuring ranges: 1, ..., 100 bar
- flush diaphragm
- selectable output:
  4~20 mA (standard), 0.5~4.5 V ratiometric and others.
- wide choice of process connection and electrical interface
- protection rating up to IP67

Applications

- chemical industry
- medical instrument
- hydraulics and pneumatics
- liquid level measurement
- process control

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Technical data

Parameters	Units	Specifications
pressure medium		viscous fluid or fluid with particles compatible with the material of wetted parts
pressure range	barG	0~1, ~2.5, ~4, ~6, ~10, ~16, ~25, ~40, ~60, ~100
	barA	NA*
	barSG	NA
proof pressure	%fs	200
burst pressure	%fs	300
output signal		4~20 mA (standard), 0.5~4.5 V (ratiometric), 0.5~5 V, 0.5~10 V
accuracy	%fs	⩽ ±0.5
long-term stability	%fs/year	< 0.2
power supply (V_{sup})	Vdc	15, ..., 36
response time (10...90%)	ms	<1
load resistance for current loop	Ω	≤ (V_{sup}-12)V/0.02mA
load resistance for voltage output	kΩ	> 5
storage temperature range	°C	-40 ~ +125
operating temperature range	°C	-40 ~ +125
compensated temperature range	°C	-20 ~ +85
temp. coefficient of span	%fso/°C	⩽ ±0.03
temp. coefficient of zero	%fso/°C	⩽ ±0.03
vibration resistance (20, ..., 2000 Hz)	g	10
seal (O-ring)		fluorine rubber
transmission fluid		NA
material of diaphragm		ceramic (96% Al2O3)
material of wetted parts		316L SS (standard), PVDF
material of electronics housing		304 SS
mechanical interface		G3/4, others refer to the drawings of mechanical interface
electrical interface		refer to the drawings of electrical interface
environment protection	IP rating	IP65, IP66
unit weight	g	~ 300

*: NA = not available or not applicable
The listed specifications and dimensions are subject to change without prior notice.

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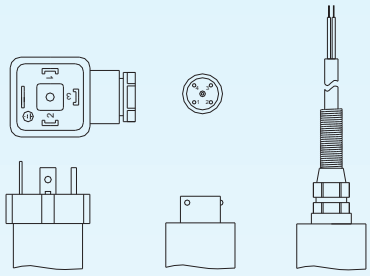
Dimensions

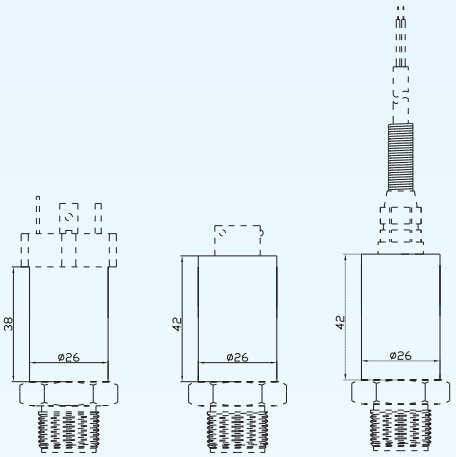
electrical interface#



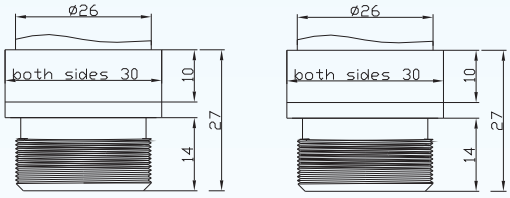
*: n = 4
**: m = 2 (for current loop), 3 (for voltage output)
***: L = cable length

DIN43650 | n*-pin circular connector | Φ5, m**-wire PVC cable, L***m

electronics housing (case)



mechanical interface#



G3/4 | other threads (on request ##)

#: The mechanical interfaces and the electrical interfaces listed below can be combined freely.
##: Other types of interfaces, which is equivalent or larger than G3/4, are available on request and to be confirmed in case of order.

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Ordering Information

pos.1	pos. 2	pos. 3	pos. 4	pos. 5	pos. 6	pos. 7	pos. 8	pos. 9	pos. 10	pos. 11
position (pos.) 1: model 132C										
	pos. 2: ranges and types 1 bar, G 1.6 bar, G 2.5 bar, G 4 bar, G 6 bar, G 10 bar, G 16 bar, G 25 bar, G 40 bar, G 60 bar, G 100 bar, G G: gauge pressure									
		pos. 3: output signal 4~20 mA (standard) 0.5~4.5 V (ratiometric) 0.5~5 V 0.5~10 V								
			pos. 4: accuracy 0.5%fs							
				pos. 5: supply power 24 V (15,..., 36 Vdc) 5 V (for o/p = 0.5~4.5 V)						
					pos. 6: filling fluid NA*. In case of "NA", pos.6 can be omitted from the ordering code.					
						pos. 7: material (wetted parts) 316L: 316L stainless steel PVDF: polyvinylidene fluoride				
							pos. 8: mechanical interface G3/4 others: refer to drawings of mechanical interface			
								pos. 9: electrical interface For available connections, refer to drawings of electrical interface. For cable, code = diameter(Φ)/number of conductors/cable jacket /cable length 5.7/4/PVC/L** = Φ5.7 mm,4-conductors shielded, PVC, L m		
									pos. 10: environment protection IP65 IP66	
										pos. 11: customized spec's "(*)" is necessary only if any customized parameter is required, otherwise it is neglectable.

*: NA = not available or not applicable;
**: L = cable length. This value is a customized value.

example: 132C-16barG-4/20mA-0.5%fs-PVDF-G3/4-DIN43650-IP65

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