

# Model 130C Ceramic Pressure Transmitters

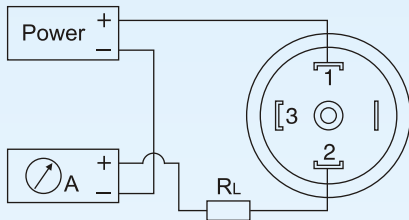
Based on thick-film ceramic technology, BCM model 130C ceramic pressure transmitter is designed for use in applications which deal with corrosive pressure media and require high accuracy. The pressure diaphragm of this transmitter is made from ceramic (Al<sub>2</sub>O<sub>3</sub>) material, while its wetted parts are made from either 316L stainless steel, or PVDF which possesses a higher degree of resistance against chemical corrosion.

130C transmitters are manufactured to be able to measure either gauge pressure (G) or absolute pressure (A). Two types of procession connections are available for 130C transmitters: inner cavity type (type I) and semi-flush type (type II). Type I can be used to measure gases or dilute liquids, while type II can measure viscous fluids or fluids with grains.

The output signals of 130C pressure transmitters are configured to meet the need of different controllers used in industrial automation processes, including 4~20 mA, 0~5 V and 0~10V. With 130C one can obtain 0.25 %fso accuracy in measurement with long-term stability better than 0.15 %fso/year. The zero thermal drift is less than 0.04 %fso/°C, while the sensitivity thermal drift is 0.02 %fso/°C over the whole operating temperature range.

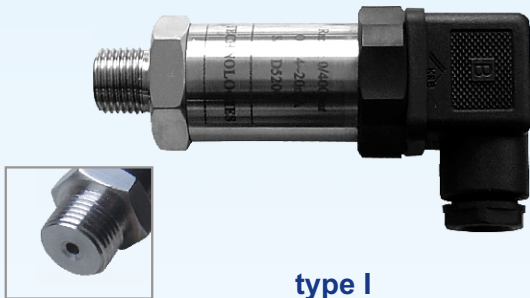
## Electrical connection:

(sketch of electrical connection of 4~20 mA output signal with DIN 43650 connector)



## Features:

- high resistance against chemical corrosion
- semi-flush membrane available (type II)
- various pressure ranges & type:
  - gauge: -1~0.5 bar, ..., 0~600 bar
  - absolute: 0~0.35 bar, ..., 0~20 bar
- output signal: 4~20 mA, 0~5 V or 0~10 V
- measuring accuracy: 0.25%fso, 0.5%fso (standard)
- materials of pressure membrane: ceramic (Al<sub>2</sub>O<sub>3</sub>)  
 wetted parts: 316L SS, option: PVDF  
 housing: 304 SS (standard)
- environment protection: IP 65 (connector), IP 66 (direct cable)
- medium temperature: up to 125 °C

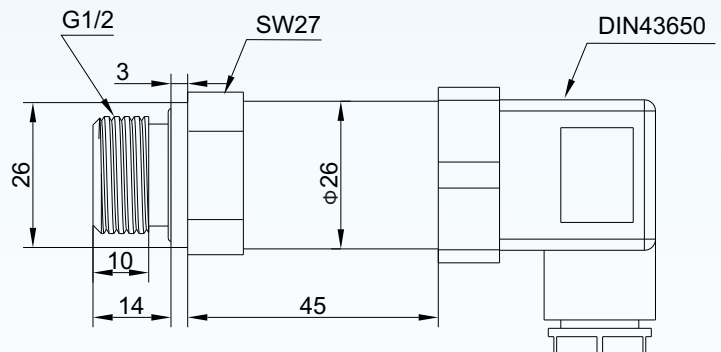
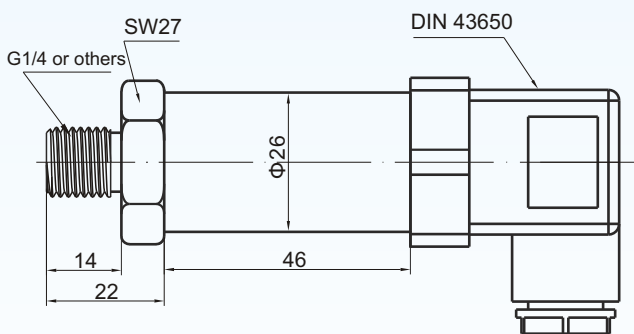


**type I**  
inner cavity type



**type II**  
semi-flush type

## Dimensions:



**BCM SENSOR TECHNOLOGIES BVBA**

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## Specifications:

pressure media	type I	gases or dilute liquids, which are compatible with 316L SS
	type II	viscous fluids or fluids with grains, which are compatible with 316L SS
measuring ranges & type	bar (G, SG)*	<b>0~0.5, 0~1, 0~2, 0~5, 0~10, 0~20, 0~50</b> , 0~100, 0~400, 0~600
	bar (A)	0~0.35, 0~0.5, 0~1, 0~2, 0~5, 0~10, 0~20
overload pressure	%FS	200 (for 400 bar and 600 bar, it is 650 bar and 880 bar, respectively)
burst pressure	%FS	250 (for 400 bar and 600 bar, it is 650 bar and 880 bar, respectively)
power supply	Vdc	24 (recommended), 12, ..., 36
output signal**		4~20 mA, 0~5 V, 0~10 V
zero offset	%FSO	± 1 maximum
accuracy	%FSO	± 0.25, ± 0.5 (standard)
long-term stability of zero	%FSO/year	± 0.15
load resistance	Ω	250~1150Ω (for 4~20 mA current loop)
		> 5000Ω (for voltage output)
storage temperature range	°C	-40 ~ +85
operating temperature range	°C	-20 ~ +80
medium temperature range	°C	-40 ~ +125
compensated temperature range	°C	0 ~ +70
temperature coefficient of SPAN	%FSO/°C	± 0.02
temperature coefficient of ZERO	%FSO/°C	± 0.04
process connection	thread	G1/4, male (type I)
		G1/2, male (type II)
		other thread available upon request
electrical connection	connector, cable	DIN 43650 connector (standard), plug-in connector; shielded PVC cable
environment protection	IP rating	IP 65 (connector); IP 66 (direct cable)
material of pressure membrane		ceramic (Al <sub>2</sub> O <sub>3</sub> )
material of wetted parts		316L SS (standard), option: PVDF
housing material		304 SS

\*: Negative pressure up to -1 bar is available for pressure ranges indicated in bold.

\*\* : 130C transducer with output of 2mV/V ~ 4mV/V is available on request.

The listed specifications are subject to change without prior notice.

**How to order:** model - range & type - output - accuracy-process connection, material - electrical connection  
- customer specific requests (if any)

**Ordering Code** example: 130C(type II)-20barA-4/20mA-0.25%fso-G1/2, PVDF-DIN43650

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