

Model 215T Heavy Duty Ceramic Pressure Transmitters

Based on BCM ceramic capacitive and ceramic pieze-resistive technology, model 215T pressure transmitters are designed for process applications in oil and gas industry areas. the transmitters are made of a proven ceramic diaphragm with 316 stainless steel as wetted parts, so the corrosive media can be measured by this kind of transmitters.

The 215T pressure transmitter has amplified output signal of 4~20 mA, with option of HART protocol and field display meter. The measuring accuracy of this kind of transmitter can be up to 0.2%fso (fso =full scale output) in full measuring ranges of 0~1 kPa to 0~200 bar, while the media temperature range keep at -40 ~ +125 °C.

For the different field applications, the process connection are selectable of flange installation fittings, isolating diaphragm fittings or fast screw-in fittings.

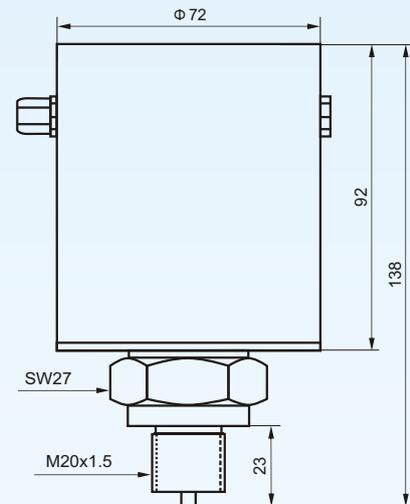


215T(type I): with external thread fittings

Features:

- pressure ranges: 0~1 kPa, ..., 0~200 bar, G
- output signal: 4~20 mA, option: with HART protocol
- measuring accuracy: 0.2%fso, 0.5%fso (standard)
- media temperature ranges: -40 ~ +125 °C
- materials: ceramic (pressure membrane); 316 SS (housing)
- 316 SS (wetted parts), option: 316L, Hastelloy-C
- explosive-proof: Exia II CT6
protection class: IP 67

Dimensions:



**215T(type II):
with flange
installation fittings**



**215T(type III):
with isolating
diaphragm fittings**

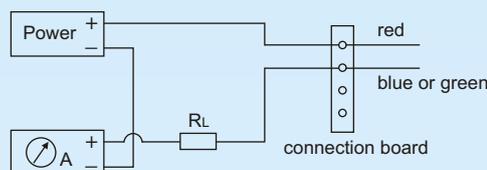


**215T(type IV):
with fast
screw-in fittings**

BCM SENSOR TECHNOLOGIES BVBA

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Electric connection:



Specifications:

pressure media	flange fittings	viscous fluid or fluid with grains, compatible to wetted parts
	other fittings	gases or dilute liquids, compatible to wetted parts
measuring ranges & type	kPaG*	0~1, 0~2, 0~7, 0~10, 0~20, 0~35, 0~70
	barG*	0~1, 0~2, 0~3.5, 0~7, 0~10, 0~20, 0~35, 0~70, 0~150, 0~200
overload pressure	%fs	200, or <2 bar; (select which is high)
output signal	%fso	4~20 mA (2-wire), option with HART protocol communication
combined error	%fso	0.2, 0.5 (standard)
load resistance	Ω	250~1150
insulation resistance	M Ω	> 500 @ 100 Vdc
supply voltage	V	12~36
temperature coefficient of ZERO	%fso/10°C	0.1
temperature coefficient of SPAN	%fso/10°C	0.1
long-term stability	fso/year	0.15
compensated temperature range	°C	0 ~ 70
operating temperature range	°C	-20 ~ +80
media temperature range	°C	-40 ~ +125
storage temperature range	°C	-40 ~ +85
explosive-proof	proof rating	Exia II CT6
protection class	IP rating	IP 65
process connection	type (I, II)	M20x1.5 (standard), 1/2 NPT, G1/2
	fittings	flange (type II); isolating diaphragm (type III); fast screw-in (type IV)
	materials	316 SS, 316L, Hastelloy-C
electrical connection	inner thread	M20x1.5 (standard), 1/2 NPT
field display	display meter	analogue, digital or no
weight	kg	0.9

*: Negative pressure measurement is available on requests for gauge pressure, negative range is half of the pressure range, but not over -1 bar. for example: 0~50 mbarG can also be used as -25 ~ +50 mbarG on requests.

The listed specifications are subject to change without prior notice.

How to order:

model - range - output, with HART or No - accuracy - process connection, material - electric connection - field display - customer specific requests

ordering code example: 215T(I) - 0~10bar - 4~20 mA, with HART - 0.5%fso - G1/2, 316L - M20x1.5 - digital meter - no specific requests