

# Model 215T Heavy-Duty Pressure Transmitters

Based on ceramic capacitive and piezoresistive technology, model 215T pressure transmitters are designed for automation processes control in oil and gas industries. These transmitters are certified to be explosive proof (Exia II CT6). The diaphragm and wetted parts of 215T pressure transmitters are made from materials which allow corrosive media to be measured. For different field applications, the process connection can be configured in form of inner cavity type (type I), semi-flush membrane type (type II), flange type (type III), isolating diaphragm type (IV) or fast screw-in type (V). Type I, IV and V are used for gases or dilute liquids, while type II and type III can be used to measure viscous fluids or fluids with grains.

Model 215T pressure transmitters have a wide pressure range for gauge pressure measurement, which spans from 0~15mbar to 0~600bar. While the range for absolute pressure measurement spans from 40mbar to 20bar. The output signal of 215T is 4~20mA with HART protocol. These transmitters are also equipped with a 4½ digits LCD display. The measuring accuracy of 215T transmitter is up to 0.2%fs (fs = full scale). The medium temperature range is -40 ~ +125 °C.

## Features:

- pressure ranges & type: 0~15 mbar, ..., 0~600 bar, gauge (G)
- 40 mbar, ..., 20 bar, absolute (A)
- output signal: 4~20 mA with HART protocol
- accuracy: 0.2%fs, 0.5%fs (standard)
- medium temperature range: -40 ~ +125 °C
- material of pressure membrane: ceramic (Al<sub>2</sub>O<sub>3</sub>)
- material of wetted parts: 316LSS (standard), option: Hastelloy-C
- housing material: aluminum alloy
- explosive-proof: Exia II CT6
- protection class: IP 65



**215T (type I):**  
inner cavity type



**215T (type II):**  
semi-flush membrane type



**215T (type III):**  
flange type

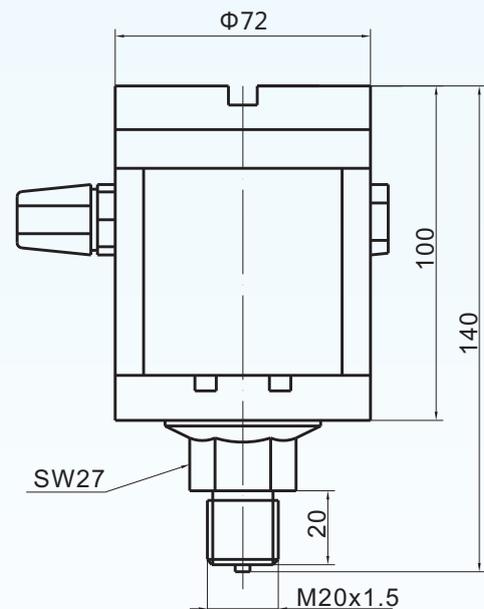


**215T (type IV):**  
isolating  
diaphragm type



**215T (type V):**  
fast screw-in type

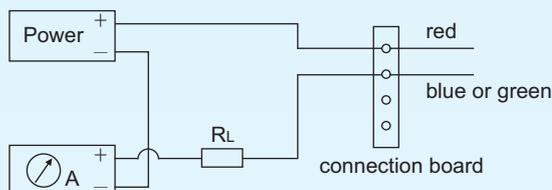
## Dimensions:



**BCM SENSOR TECHNOLOGIES BVBA**

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## Electrical connection:



## Specifications:

parameters		units	specifications
pressure media		type II, III	viscous fluids or fluids with grains (compatible with the material of the wetted parts)
		type I, IV, V	gases or dilute liquids (compatible with the material of the wetted parts)
measuring ranges	gauge (G*)	mbar	0~15, ~35, ~70, ~100, ~200, ~350, ~700
		bar	0~1, ~2, ~3.5, ~7, ~10, ~20, ~35, ~70, ~100, ~200, ~350, ~600
	absolute (A)	mbar	0~40, ~70, ~100, ~200, ~350, ~700
		bar	0~1, ~2, ~3.5, ~7, ~10, ~20
overload pressure			2bar (for range ≤ 1bar), 200%fs (for range > 1bar)
output signal		mA	4~20, option: with HART protocol
power supply		V	12, ..., 36 (depending on the load resistance)
accuracy		%fs	≤ ±0.2, ≤ ±0.5 (standard)
long term stability		%fs/year	≤ ±0.15
life time		cycle	10 <sup>8</sup>
response time		ms	<2
load resistance		Ω	250 ~ 1150
storage temperature range		°C	-40 ~ +85
operating temperature range		°C	-40 ~ +125
compensated temperature range		°C	0 ~ +70
temperature coefficient of SPAN		%fso/°C	≤ ±0.01
temperature coefficient of ZERO		%fso/°C	≤ ±0.01
process connection & material		type I, II	M20x1.5 (standard), 1/2 NPT, G1/2
		type III, IV, V	flange (type III); isolating diaphragm (type IV); fast screw-in (type V)
		material	316L SS, option: Hastelloy-C
electrical connection		inner thread	M20x1.5 (standard), 1/2 NPT
housing material			aluminum alloy
environment protection		IP rating	IP65
explosive-proof		proof rating	Exia II CT6
field display			4½ LCD digital display
net weight		kg	0.9

The listed specifications are subject to change without prior notice.

\*: On request, 215T is available for negative pressure measurement in gauge pressure. The negative pressure range is half of the positive pressure range, but not beyond -1 bar. For example, if the pressure range of the concerned 215T is 0~700 mbarG and this 215T is to be used for negative pressure measurement, then the customer needs to specify the pressure range as (-350/+700)mbarG.

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

ordering code: example: 215T(I)-(-1/+3.5)barG-4/20mA with HART-0.5%fs-G1/2 (316L)-M20x1.5