

Model 436C Ceramic Pressure Transmitter with Integrated 4-digits Display

Based on BCM thick film strain gauge on ceramic technology, 436C ceramic pressure transmitters are designed for gauge pressure (relative pressure), sealed gauge pressure or absolute pressure applications in general industries, 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.

436C pressure transmitters provide analogue 4~20 mA output signal with integrated 4-digits display, so the measured pressure can be field displayed. The connecting ports of 436C are manufactured to inner cavity types or internal thread type, suitable for gases or dilute liquids pressure media. The transmitters are used for liquid leakage test on tank, and widely used in oil and chemical industry, irrigation works, electric power, refrigerate system etc.

436C pressure transmitters are temperature compensated in range of -10 ~ +60 °C, and achieve nice measuring accuracy of 0.5%fso (fso = full scale output) in measuring ranges of 0~1 bar to 0~300 bar.



436C (type I): inner cavity with flat port

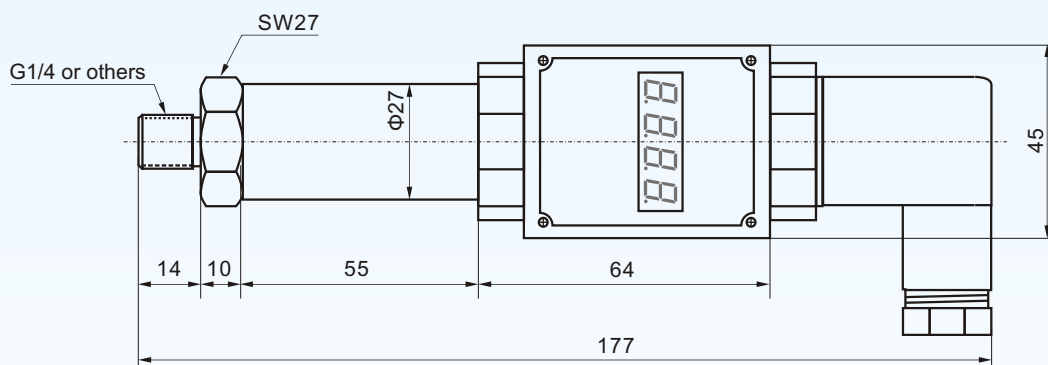


436C (type II): inner cavity with protrude port



436C (type III): internal thread type

Dimensions:



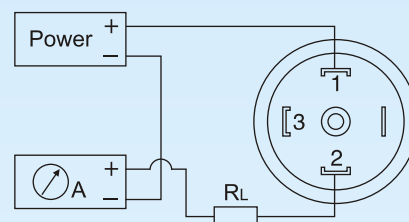
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Features:

- pressure ranges: 0~1, ..., 0~300 bar (G, S);
0~1, ..., 0~5 bar (A)
- output signal: 4~20 mA, with integrated 4-digits display
- measuring accuracy: 0.5 %fso
option: 0.25%fso for 4~20 mA output in 0~2 to 0~200 bar,
while 0.5 %fso for 4-digits display meter
- compensated temperature ranges: -10 ~ +60 °C
- materials: ceramic (pressure membrane); 316 SS (housing)
- housing protection: IP 65

Electrical connection:

(example of 4~20 mA output signal with DIN 43650 connector)



Specifications:

pressure media		gas or dilute liquid, which is compatible with wetted parts materials.
measuring ranges & type	bar (G, S)	0~1, 0~2, ~3, ~5, ~10, ~20, ~30, ~50, ~100, ~160, ~200, ~300
	barA	0~1, ~2, ~3, ~5
overload pressure	%fso	150
output signals		4~20 mA + 4-digits display
combined error	%fso	0.5 (standard); 0.25 (option: for 4~20 analogue output in 0~2 to 0~200 bar, while 0.5 %fso for 4-digits integrated display meter)
insulation resistance	MΩ	> 500 @ 100 Vdc
supply voltage		12, ..., 30 V (depending on load resistance)
load resistance	Ω	250, ..., 1100
temperature coefficient of ZERO	%fso/10°C	±0.5
temperature coefficient of SPAN	%fso/10°C	±0.5
long-term stability	%fso/year	± 0.15
compensated temperature range	°C	-10 ~ +60
operating temperature range	°C	-40 ~ +125
process connection		G1/4 (standard), 1/4 NPT, M14x1.5, others are available on request
electrical connection	connector/cable	DIN 43650 connector; 4-pin plug-in connector, plus matting connector; 2-conductor shielded PVC skin cable (Φ5 mm, length 2 m).

The listed specifications are subject to change without prior notice.

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Ordering Codes System:

(The items in GRAY in the following table mean that, those items can be requested by the customer on his order sheet once those requested items have been confirmed already in writing by BCM sales people.)

example: 436C(I) - L4 - G - O3 - A4 - M5- E2 - S4 - P5 - C*

code	model
436C(I)	436C (type I)
436C(II)	436C (type II)
436C(III)	436C (type III)

code	pressure range & available pressure type
L1	0~1 bar (G, A, S)
L2	0~2 bar (G, A, S)
L3	0~3 bar (G, A, S)
L4	0~5 bar (G, A, S)
L5	0~10 bar (G, S)
L6	0~20 bar (G, S)
L7	0~30 bar (G, S)
L8	0~50 bar (G, S)
L9	0~100 bar (G, S)
L10	0~160 bar (G, S)
L11	0~200 bar (G, S)
L12	0~300 bar (G, S)
L13	other range to request

code	pressure type
G	gauge (or relative)
A	absolute
S	sealed gauge

code	output signal
O3	4~20 mA, + 4-digits display
O4	other output signal to request

code	combined error
A3	0.25 %fso for 4~20 mA output in range of 0~2 to 0~200 bar, while 0.5 %fso for 4-digits display meter
A4	0.5 %fso

code	customer especially requested item
C*	This is a customized code given by the customer, who wants to use this code to define his desired or wished specific item for the sensor to be ordered. This code starts with a "C" followed by a "*". Once the customer desired or wished item is confirmed by BCM sales people, the customer can write this code "C*" as part of his ordering code on his order sheet. If the customer does not have such special request, this "C*" code can be omitted.

code	environment protection
P5	IP 65 (connector for electrical connection)
P6	IP 66 (cable for electrical connection)
P7	IP 67

code	power supply
S4	12, ..., 30 V
S5	other power supply to request

code	electrical connection
E2	DIN 43650 connector
E3	4-pin plug-in connector, plus mating connector
E4	2-conductor shielded PVC skin cable (Φ5 mm, length 2 m)
E5	other electrical connection to request

code	process connection
M2	G1/4
M3	1/4 NPT
M4	M14 x 1.5
M5	G1/2
M6	other thread to request

Explanation of the Ordering Code: 436C(I) - L4 - G - O3 - A4 - M5- E2 - S4 - P5 - C*

Model 436C (type I) Pressure transmitter in inner cavity construction for 0~5 bar application in gauge pressure, the transmitter has 4~20 mA output signal with integrated 4-digits display meter, achieve 0.5%fso combined error, the process connection for transmitter is G1/2, electrical connection is DIN 43650 connector, power supply is 12, ..., 30 V depending on load

resistance, environment protection grade for the transmitter is IP 65. The customer has indicated his wished specification on his order sheet by code "C*" (for instance, C* = overload pressure has to be 200%FS), and this customer-wished item has to be confirmed by BCM sales people on <<Order Confirmation>>.



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