

Model 435C Low Pressure Transmitters

Based on ceramic sensor technology, BCM 435C low pressure transmitters are constructed of stainless steel, designed for low pressure measurement for corrosive media in harsh environments. The transmitter has nice accuracy up to 0.5%fso (fso = full scale output) with amplified output signal of 4~20 mA.

In order to measure different media, model 435C transmitters are designed to two kinds of pressure connection ports: flush diaphragm type with out thread for viscous or big grain media, and housing type with assembly thread for gases or dilute media.

Features:

- Low pressure measuring ranges, negative pressure measurement are available
- measuring accuracy of 0.5%fso (min.), 1%fso (standard) selectable
- all welded constructed with stainless steel (316L), used for corrosive media
- flush diaphragm type and housing type selectable
- housing protection IP 65 (for DIN 43650 connector or plug-in connector);
IP 68 for wires connection
- high overload pressure up to 100 times of measured pressure ranges

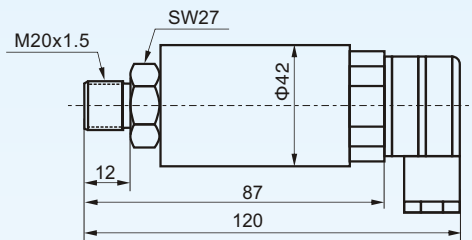


435C(type I): inlet cavity type

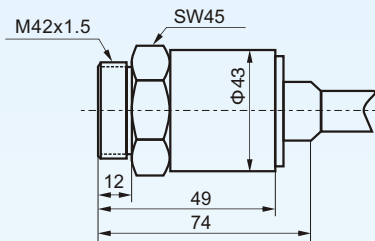


435C(type II): flush diaphragm type

Dimensions:

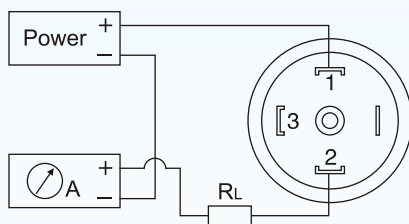


435C(type I): inlet cavity type



435C(type II): flush diaphragm type

Electric connection: (example of DIN 43650 connector)



Model 435C

Low Pressure Transmitters



Specifications:

| | | |
|---------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------|
| pressure media | type I | gases or dilute liquids, compatible to wetted 316L |
| | type II | viscous fluid or fluid with grains, compatible to wetted 316L |
| measuring ranges & type | mbarG | 0~50*, 0~70*, 0~100*, 0~200 |
| overload pressure** | %fs | 10000 (+ direction) |
| output signal | mA | 4~20 |
| combined error | %fso | 0.5, 1 (standard) |
| power supply | Vdc | 12~30 |
| load resistance | Ω | 150~1050 |
| temperature coefficient of ZERO | %fso/10°C | 0.2 |
| temperature coefficient of SPAN | %fso/10°C | 0.2 |
| compensated temperature range | °C | -30 ~ +70 |
| media temperature range | °C | -30 ~ +80 |
| storage temperature range | °C | -30 ~ +85 |
| long-term stability | %fso/year | < 0.5 |
| vibration error | %fso | < 0.01 (x,y,z axis at 200Hz/g) |
| insulation resistance | M Ω | \geq 500 @ 100 Vdc |
| dynamic response time | ms | < 2 |
| environment protection | IP rating | IP 65 (DIN connector, plug-in connector) IP 68 (wire connection) |
| process connection | external thread | M20x1.5 (type I); M42x1.5 (type II); O-ring sealing for type I & type II |
| electrical connection | connector/cable | DIN 43650 connector (standard); 6-pin, 5-pin, 4-pin connector; shield PVC cable (3m length, 2-wire, Φ 4.7 mm) |

*: 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.

** : overload pressure on "- direction" is not over -1 bar.

The listed specifications are subject to change without prior notice.

How to order: model - range & type - output - accuracy - process connection - electric connection - customer specific requests

ordering code example: 435C(I) - 0~70 mbarG - 4~20 mA - 0.5%fso - M20x1.5 - cable - see code C0116 requests

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