# Model 136C

## **Pressure Transmitters with Integrated 4-digit Display**



Based on ceramic thick film technology, 136C pressure transmitters are designed for pressure measurements in general industrial applications. Equipped with an integrated 4-digit display, 136C pressure transmitters provide an easy solution for field testing applications, such as leakage testing for tanks.

Model 136C pressure transmitter is available with a variety of options for process connections: inner cavity type with protrude port (type Ia), inner cavity type with flat port (type Ib), internal thread type (type Ic) and flush diaphragm type (type IIa). Type I(a,b,c) process connections are used to measure gases or dilute liquids, while type IIa is specially used to measure paste or fluids with grains. Model 136C is specially suitable to measure corrosive pressure media with its ceramic diaphragm and 316L stainless steel pressure port.

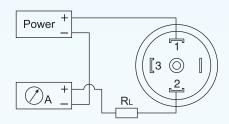
The measuring ranges of model 136C span from 0~350 mbar to 0~300 bar. The output signal is 4~20 mA. The measuring accuracy is 0.5%fs (fs = full scale). Negative gauge pressure measurement is also possible on request. The integrated display provided can be either LCD for display purpose only, or smart LED which allows the user to set parameters such as zero, span, damping time and alarms.

#### **Features:**

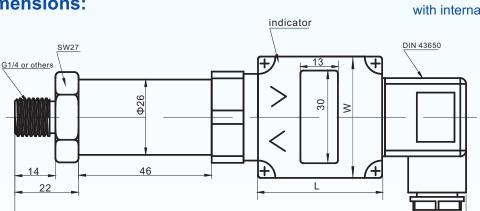
- pressure ranges: 0~350 mbar, ..., 0~300 bar
- pressure types: absolute (A) and gauge (G)
- output signal: 4~20 mA with integrated 4-digit display
- accuracy: 0.5 %fs
- compensated temperature range: -10 ~ +60 °C
- materials: ceramic (pressure diaphragm); 316L SS (wetted part)
- environment protection:
  - IP 65 (connector), IP 66 (direct cable)
- display: 4-digit LCD (standard), 4-digit smart LED

#### Electrical connection:

(sketch of an example of 4~20 mA output signal configured to a DIN 43650 connector)



#### **Dimensions:**







136C (type la): inner cavity with protrude port



136C (type 1c): inner cavity with internal thread



136C (type lb): inner cavity with flat port



136C (type IIa): flush diaphragm

dimensions of the display

display	LxWxH* (mm)	
smart LED	42.5x42.5x46	
LCD	45x45x46	

\*: H is the thickness of the display.

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Tel.: +32-3-238 6469

Fax: +32-3-238 4171

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#### **Technical Data:**

parameters		units	specifications
pressure media		type la, lb, lc	gases or dilute liquids (compatible with the wetted parts' materials)
		type IIa	paste or fluids with grains (compatible with the wetted parts' materials)
pressure ranges and types*		bar, gauge (G)	0~0.5, ~1, ~2, ~3, ~5, ~10, ~20, ~30, ~50, ~100, ~160, ~200, ~300
		bar, absolute (A)	0~0.35, 0~0.5, 0~1, 0~2, 0~5, 0~10, 0~20
		bar, sealed G (SG)	NA
overload pressure		%FS	150
output signal			4~20 mA with integrated 4-digit display
accuracy		%FS	± 0.5
long-term stability of zero		%FS/year	± 0.3
power supply		Vdc	12,, 30 V (depending on the load resistance)
load resistance		Ω	250,,1100
storage temperature range		°C	-40 ~ +125
operating temperature range		°C	-40 ~ +125
compensated temperature range		°C	-10 ~ +60
temperature coefficient of SPAN		%FS/°C	± 0.05
temperature coefficient of ZERO		%FS/°C	± 0.05
response time		ms	<2
process interface		type la, lb, lc	G1/4 (standard), 1/4 NPT, M14x1.5, others are available on request
		type IIa	G1/2
electrical interface		connector/cable	DIN 43650 connector, plug-in connector ( standard)
			shielded PVC cable (3m length, 2-wire,Φ4.7mm)
materials	diaphragm		ceramic (Al2O3)
	wetted part		316L SS
	housing		304 SS
environment protection IP r		IP rating	IP 65 (DIN 43650 connector, or plug-in connector) , IP 66 (direct cable)
integrated display			4-digit LCD with zero & span adjustment function.
			4-digit smart LED with zero & span adjustment, alarm setting functions
weight		g	~180

The listed specifications are subject to change without prior notice.

**How to order:** model-range,type-output-accuracy-process interface-electrical interface-display-customized specification (if any) ordering code example: 136C(type la)-0/10barG-4/20mA-0.5%fs-G1/4-DIN43650-4 digits LCD



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website: www.bcmsensor.com

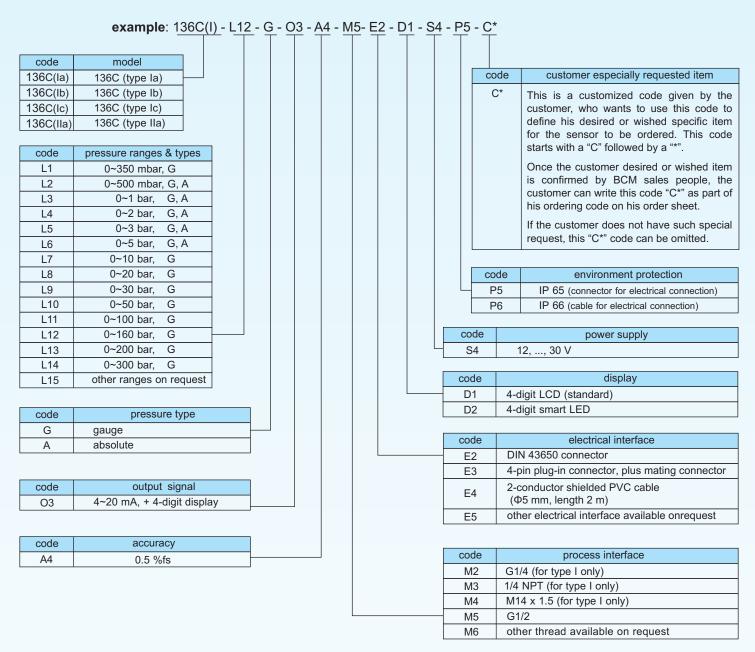
email: sales@bcmsensor.com

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#### **Ordering Codes System:**



#### Explanation of the Ordering Code: 136C(Ia) - L12 - G - O3 - A4 - M5- E2 - D1 - S4 - P5 - C\*

Model 436S (type Ia) pressure transmitter of inner cavity construction for  $0\sim160$  bar gauge pressure measurement application, the transmitter has  $4\sim20$  mA output signal with integrated 4-digit LCD display. The measuring accuracy of this transmitter is 0.5%fs, the process interface is G1/2, the electrical interface is DIN 43650 connector, the power supply is 12, ..., 30 V depending on load resistance, and the environment protection grade is IP 65. The customer has indicated the customized

specifications on the order sheet by using the code "C\*" (for instance,  $C^*$  = overload pressure has to be 200%FS), and this customized specification has to be confirmed by BCM sales people on the <<Order Confirmation>>.



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Industriepark Zone 4, Brechtsebaan 2 B-2900 Schoten - Antwerpen, BELGIUM Tel.: +32-3-238 6469 Fax: +32-3-238 4171 website: www.bcmsensor.com email: sales@bcmsensor.com