

Model 219D

Differential Pressure Transmitters

Model 219D is a transmitter version of 218D differential pressure transducer. These transmitters are made of 316L stainless steel (SS) with a laser welded construction. 219D transmitters are low profile products with threads as the process interface for easy installation. The threads can be made in female or male types.

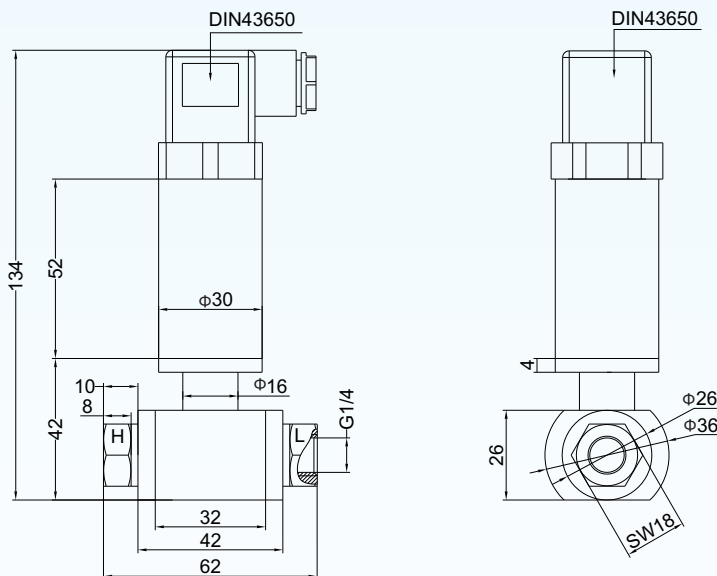
Model 219D is designed for measuring the differential pressure of gases or dilute liquids. The measuring ranges span from 0~0.1 bar up to 0~35 bar. The output signal is amplified signal such as current loop (4~20 mA, standard), 0.5~4.5V (ratiometric), 1~5 Vdc, or 2~10 Vdc with accuracy up to 0.25 %fso (fso=full scale output). The non-zero output at ZERO load provides an easy solution for diagnosis.



Features:

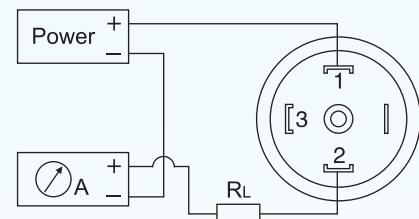
- diff. pressure ranges: 0~0.1, ..., 0~35 bar
- system pressure: 1000 %fs (max. 100 bar)
- output signal: 4~20 mA (standard), 0.5~4.5 V(ratiometric), 1~5 Vdc, 2~10 Vdc
- measuring accuracy: 0.25%fso, 0.5%fso (standard), 1 %fso
- compensated temperature range: 0~80°C
- materials: 316L (pressure diaphragm), 316 (wetted parts)
- construction: laser welded construction, rigid and robust
- housing protection: IP 65 (with connector), IP 66 (with cable)

Dimensions:



Electrical connection:

(4~20mA current loop configured with DIN43650)



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Technical data:

parameters	units	specifications
pressure medium	/	gases or dilute-liquids, compatible to the 316L stainless steel
differential pressure ranges	bar, D	0~0.1, ~0.2, ~0.35, ~0.7, ~1, ~2, ~3.5, ~7, ~10, ~20, ~35
differential overload pressure*	%fso	1000 (max. 100 bar)
system pressure	%fso	1000 (max. 100 bar)
output signal		4~20 mA (standard), 0.5~4.5 V ratiometric, 1~5 Vdc, 2~10 Vdc
accuracy	%fso	0.25, 0.5 (standard), 1
system pressure effect on diff. pressure	%fso/bar	0.05
long term stability	%fso/year	< 0.2 (ranges \geq 0~2 bar); < 0.5 (other ranges)
supply voltage	Vdc	15, ..., 30 (exception: 5 for 0.5~4.5V ratiometric output)
load resistance	Ω	350~1100 (for current output)
	Ω	> 5000 (for voltage output signal)
insulation resistance	M Ω @500Vdc	500
storage temperature	$^{\circ}$ C	-40 ~ +135
operating temperature	$^{\circ}$ C	-40 ~ +125
compensated temperature	$^{\circ}$ C	0~80 (other range available on request)
temperature coefficient on zero	%fso/ $^{\circ}$ C	0.03
temperature coefficient on span	%fso/ $^{\circ}$ C	0.03
process interface	thread	G1/4 female (standard), 1/4NPT male, other threads available on request
	connector	DIN 43650 (other type plug-in connectors available on request)
electrical interface	cable	PVC shielded cable (1.5 meter length)
environment protection	/	IP 65 (with connector), IP 66 (with cable)
diaphragm material	/	316L SS
wetted parts material	/	316 SS
housing material	/	304 SS
net weight	g	~360

The specifications and dimensions listed above are subject to change without prior notice.

Reference test conditions: supply voltage = 24 Vdc, temperature = 25 $^{\circ}$ C, humidity = 60 %RH.

*: differential overload pressure = maximum limit of differential pressure

How to order:

model-range&type-system pressure-output-accuracy-supply voltage-pressure interface-electrical interface-customer requests
ordering code example: 219D-0/10barD-100bar-4/20mA-0.25%fso-15/30Vdc-G1/4(female)-DIN43650



ISO9001 Certified Company

BCM SENSOR TECHNOLOGIES BVBA

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