

Electrical contact pressure gauge with aluminium case

Model: P531, P532, P533, P534, P537, P539 series

Spec. sheet no. PD05-05

Service intended

P530 series are designed for a local reading of measured pressure and equipped with the inductive contact block which allows all the combinations of contacts to be used. The contact block is mounted on the dial. The window is fitted with a knob for external adjustment of the setpoints.



Nominal diameter

100 and 150 mm

Accuracy

±1.5% of full scale

Scale range (MPa, kPa, bar)

-0.1 ~ 0 to -0.1 ~ 2 MPa

0 ~ 0.1 to 0 ~ 100 MPa

Working pressure

Steady : 75% of full scale

Over range protection : 130% of full scale

Working temperature

Ambient : -40 ~ 65°C

Fluid : Max. 100°C

Temperature effect

Accuracy at temperature above and below the reference temperature (20°C) will be effected by approximately ±0.4% per 10°C of full scale



Standard features

Pressure connection

Stainless steel (316SS)

Element

C type bourdon tube

Stainless steel (316SS)

Case

Black finished aluminium

Cover

Black finished aluminium

Screwed

Window

Acrylic resin

Safety glass (P539)

Movement

Stainless steel

Dial

White aluminium with black graduations

Pointer

BsT3 alloy, black painted pointer with golden plated

Process connection

3/8", 1/2" PT, NPT and PF

Contacts

Contact rating : AC 110 V, 0.5 A/AC 220 V 0.25 A

DC 110 V, 0.3 A/DC 220 V 0.15 A

Dielectric strength : AC 1,000 V/min

Insulation resistance : More than 100 MΩ at DC 500 V

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1. Base model

- P531** High alarm contact type pressure gauge
P532 High and low alarm contact type pressure gauge
P533 Low alarm contact type pressure gauge
P534 High and hi/high alarm contact type pressure gauge
P537 Low and lo/low alarm contact type pressure gauge
P539 Multi-purpose contact type pressure gauge for transformer (Only 100 mm)

2. Nominal diameter

- 4** 100 mm
6 150 mm, not available with model P539 series

3. Type of mounting

- A** Bottom connection, direct
B Bottom connection, surface, case mounting plate. Not available with diameter 150 mm
G Lower back connection, direct, not available with diameter 100 mm. Only available with model P539
N Lower back connection, flush, case center mounting plate, not available with diameter 150 mm
M Lower back connection, flush, cover center mounting bracket, only available with diameter 150 mm

4. Accuracy

- 4** ±1.5% of full scale

5. Process connection

- D** 3/8"
E 1/2", only lower back mounting type

6. Connection type

- B** PF
C PT
D NPT
Z Other

7. Unit

- H** bar
I MPa
J kPa

8. Range

- XXX** Refer to pressure unit and range table

9. Pressure connection material and dial color

- 3** 316SS and 2 colors
7 316SS and 3 colors

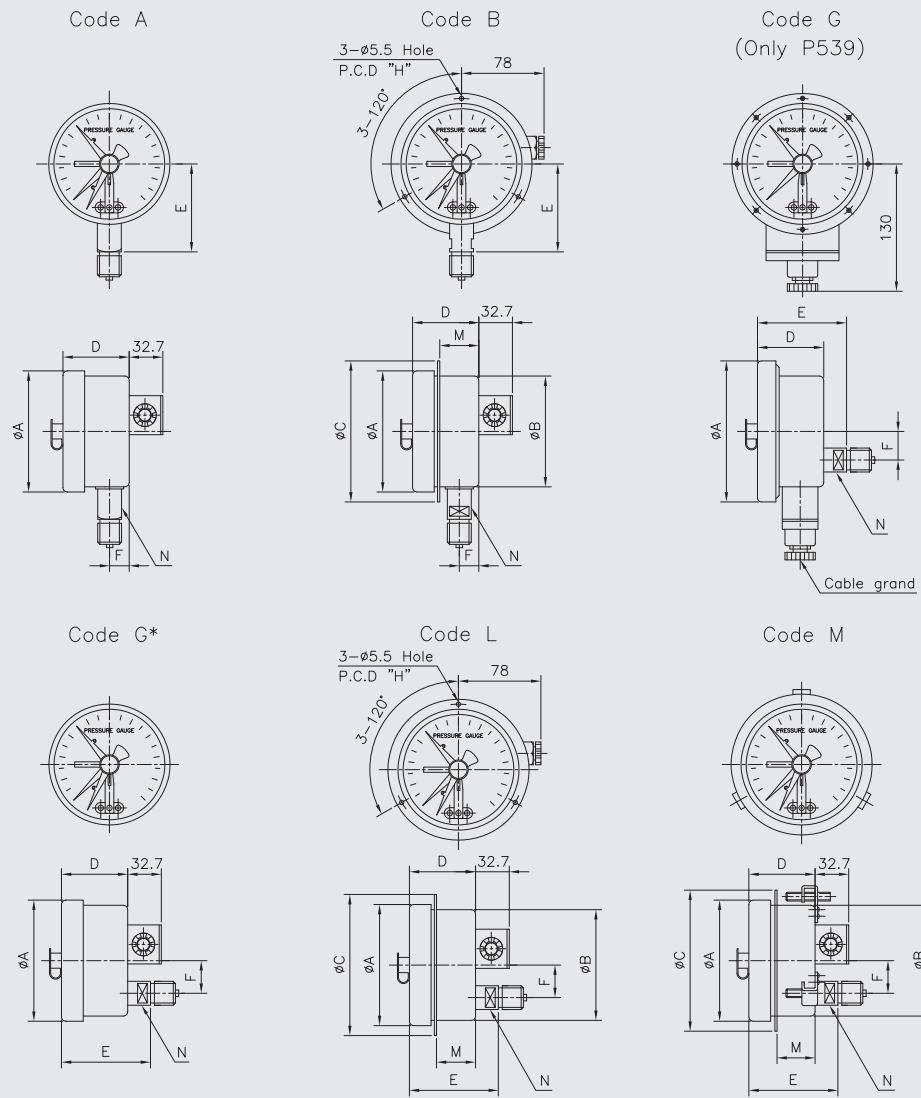
10. Option

- 0** None
1 Accessories

1	2	3	4	5	6	7	8	9	10
P531	4	A	4	D	D	H	XXX	3	0

Sample
ordering code

P53X : Type of mounting



Dimensions (mm)

Dial size	Available code	A	B	C	D ± 2	E ± 2	F ± 1	H	M	N	
100	P531 P533	A	110		78.5	74	15			14	
		B	110	107	136	78.5	74	15	120	58.5	14
		L	110	107	136	78.5	97.3	36	120	58.5	17
	P532 P534	A	110			78.5	74	15			14
		B	110	107	136	78.5	74	15	120	58.5	14
		L	110	107	136	78.5	97.3	36	120	58.5	17
	P537	A	110			78.5	74	15			14
		B	110	107	136	78.5	74	15	120	58.5	14
		L	110	107	136	78.5	97.3	36	120	58.5	17
P539	G	134			68	86	36			14	
150	P531 P533	A	172			68.5	107	18.2			22
		G*	172			68.5	86.3	45			17
		M	172	159	192	69	86.8	45		60	17
	P532 P534	A	172			68.5	107	18.2			22
		G*	172			68.5	86.3	45			17
		M	172	159	192	69	86.8	45		60	17
	P537	A	172			68.5	107	18.2			22
		G*	172			68.5	86.3	45			17
		M	172	159	192	69	86.8	45		60	17

Pressure unit and range table

Range and code	Unit and code			P531, P532, P533, P534, P537		P539
	H : bar	I : MPa	J : kPa	100 mm	150 mm	100 mm
026	-1 ~ 0	-0.1 ~ 0	-100 ~ 0	O	O	O
040	0 ~ 0.5	0 ~ 0.05	0 ~ 50	O	X	O
041	0 ~ 1	0 ~ 0.1	0 ~ 100	O	O	O
042	0 ~ 2	0 ~ 0.2	0 ~ 200	O	O	O
043	0 ~ 3	0 ~ 0.3	0 ~ 300	O	O	O
044	0 ~ 4	0 ~ 0.4	0 ~ 400	O	O	O
045	0 ~ 6	0 ~ 0.6	0 ~ 600	O	O	O
047	0 ~ 10	0 ~ 1	0 ~ 1,000	O	O	O
050	0 ~ 15	0 ~ 1.5	X	O	O	O
051	0 ~ 20	0 ~ 2	X	O	O	O
052	0 ~ 25	0 ~ 2.5	X	O	O	O
054	0 ~ 35	0 ~ 3.5	X	O	O	O
055	0 ~ 50	0 ~ 5	X	O	O	O
057	0 ~ 70	0 ~ 7	X	O	O	O
058	0 ~ 100	0 ~ 10	X	O	O	O
059	0 ~ 150	0 ~ 15	X	O	O	O
062	0 ~ 250	0 ~ 25	X	O	O	O
064	0 ~ 350	0 ~ 35	X	O	O	O
066	0 ~ 500	0 ~ 50	X	O	O	O
068	0 ~ 700	0 ~ 70	X	O	O	O
070	0 ~ 1,000	0 ~ 100	X	O	O	O
027	-1 ~ 1	-0.1 ~ 0.1	-100 ~ 100	O	O	O
028	-1 ~ 2	-0.1 ~ 0.2	-100 ~ 200	O	O	O
029	-1 ~ 3	-0.1 ~ 0.3	-100 ~ 300	O	O	O
030	-1 ~ 4	-0.1 ~ 0.4	-100 ~ 400	O	O	O
031	-1 ~ 6	-0.1 ~ 0.6	-100 ~ 600	O	O	O
032	-1 ~ 10	-0.1 ~ 1	-100 ~ 1,000	O	O	O
033	-1 ~ 15	-0.1 ~ 1.5	-100 ~ 1.5 MPa	O	O	O
034	-1 ~ 20	-0.1 ~ 2	-100 ~ 2 MPa	O	O	O

O : Available X : Not available