

Electrical contact type pressure gauge with nickel plated zinc case Model: P542, P543 series

Spec. sheet no. PD05-07

Service intended

P542 and P543 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 set points. These are also designed to direct the leakage of insulating oil inside the electric cable.



Nominal diameter

100 and 150 mm

Accuracy

±1.0% of full scale

Scale range (MPa, kPa, bar)

-0.1 ~ 0.6 MPa to -0.1 ~ 1 MPa

-0.1 ~ 0.3 MPa

Working pressure

Steady : 75% of full scale value

Over range protection : 130% of full scale

Working temperature

Ambient : -40 ~ 65°C

Fluid : Max. 100°C

Degree of protection

EN60529/IEC529/IP67

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)

Threaded entry, radial

Element

Stainless steel (316SS)

C type bourdon tube

Case

Nickel plated zinc for 100 mm (P542)

Triple setpoint only 316SS 100 and 150 mm (P543)

Cover

Nickel plated zinc for 100 mm

Triple setpoint only 316SS 150 mm (P543)

Window

Safety glass

Movement

Stainless steel

Dial

White aluminium with black graduations

Pointer

BsT3 alloy, black painted pointer with gold plated

Process connection

3/8" PF

Contact

Contact : Dual set point or triple set point

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

Dielectric strength : AC 2,000 V/min insulation

Insulation resistance : More than 100 MΩ at DC 500 V

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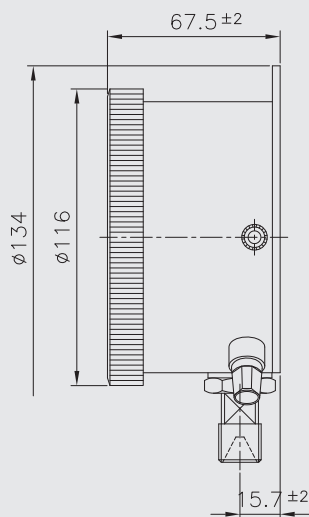
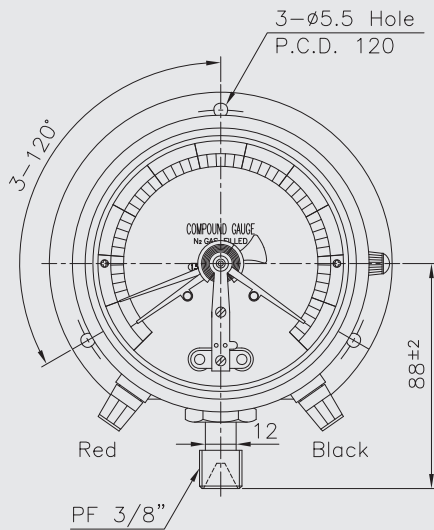
1. Base model**P542** Electrical contact type pressure gauge (Dual contact)**P543** Electrical contact type pressure gauge (Triple contact)**2. Nominal diameter (mm)****4** 100**6** 150**3. Type of mounting****B** Bottom entry and surface mounting flange**4. Accuracy****3** ±1.0% of full scale**5. Process connection****D** 3/8"**6. Connection type****B** PF**7. Unit****H** bar**I** MPa**J** kPa**8. Range****029** -0.1 ~ 0.3 MPa (-1 ~ 3 bar)**031** -0.1 ~ 0.6 MPa (-1 - 6 bar)**032** -0.1 ~ 1 MPa (-1 ~ 10 bar)**9. Dial color****6** 3 colors**10. Option****0** None**1** Accessories

1	2	3	4	5	6	7	8	9	10
P542	6	B	3	D	B	H	029	6	0

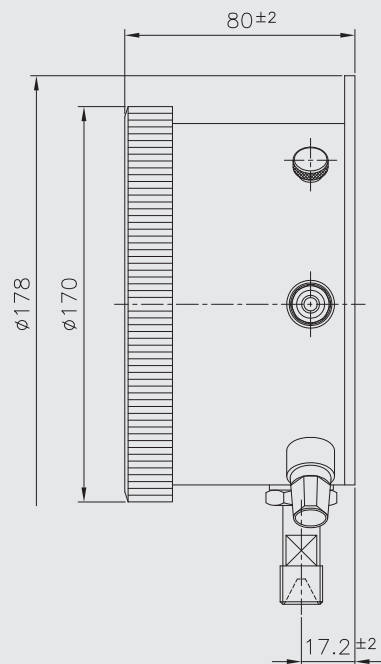
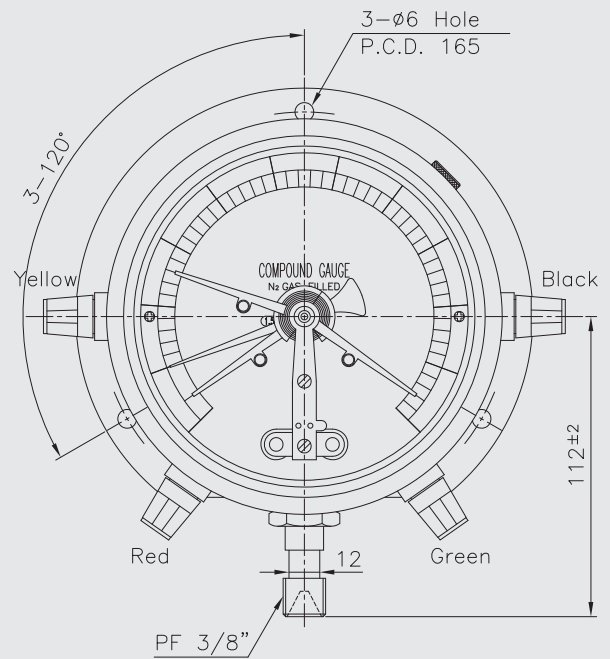
Sample
ordering code

P542 : Type of mounting

Code 4



Code 6



Conversion table

Pressure conversion chart

psi	atm	kgf/cm²	inH₂O	mmHg	inHg	kPa	bar	mmH₂O
1	0.068046	0.070307	27.7276	51.715	2.03602	6.835	0.06895	704.28104
14.696	1	1.0332	407.484	760	29.921	101.325	1.01325	10350.0936
14.2233	0.96784	1	394.38	735.559	28.959	98.096	0.98067	10,000
0.036092	0.002454	0.00253	1	1.8651	0.07343	0.249	0.00249	25.4
0.019336	0.001315	0.001359	0.53616	1	0.03937	0.1333	0.001333	13.618464
0.491154	0.0033421	0.03453	13.6185	25.4	1	3.3864	0.033864	345.9099
0.145	0.00987	0.010197	4.0186	7.5006	0.2953	1	0.01	102.07244
14.5038	0.98692	1.01972	402.156	750.062	29.53	100	1	10214.7624
0.00142	0.000097	0.0001	0.03937	0.0734	0.0029	0.0098	0.000098	1

Memo