

# Chart recorder

## Model: P930 series

Spec. sheet no. PD09-03

### Service intended

P930 series pressure recorder provides a single or dual pen 200 mm circular chart recorder for measurement. It is suitable for hazardous environment such as gas or chemical process lines.



### Nominal diameter

246 (W) X 271 (H)

### Accuracy

±2.0% of full scale (Range 0.4 Mpa or less)

### Scale range (MPa, kPa, bar)

Pressure : 0 ~ 5 kPa to 0 ~ 100 MPa

### Working pressure

Steady pressure : 75% of full scale

Over range protection : 130% of full scale

### Working temperature

Ambient : -40 ~ 65°C

Fluid : Max. 200°C



## Standard features

### Pressure connection

Stainless steel (316SS)

### Element material

Bourdon tube : Stainless steel (316SS)

Bellows : Brass

### Case and cover

ALDC 12.1

Hinged door

### Window

Acrylic resin

### Movement

Brass

### Chart drive

1. Spring wound type : 24, 168 (7 day) hours rotation
2. Battery type : 30 min, 96 min, 1, 2, 4, 6, 8, 12 hours and 1, 2, 7, 8, 14, 16, 31, 32 days selectable for portable type

### Chart paper

200 mm circular

### Mounting

Surface mounting and portable type

### Process connection

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

**1. Base model**

- P931** Chart recorder (Surface mounting, one pen type)  
**P932** Chart recorder (Surface mounting, two pen type)  
**P933** Chart recorder (Portable, one pen type)  
**P934** Chart recorder (Portable, two pen type)

**2. Sensor type**

- 8** Temperature and pressure  
**9** Pressure

**3. Type of mounting**

- B** Bottom entry and surface mounting plate

**4. Accuracy**

- 5** ±2.0% of full scale

**5. Process connection**

- D** 3/8"  
**E** 1/2"

**6. Connection type**

- B** PF  
**C** PT  
**D** NPT

**7. Unit**

- H** bar  
**I** MPa  
**J** kPa  
**Z** Other

**8. Range**

- XXX** Refer to pressure range table

**9. Pressure connection material**

- 3** 316SS

**10. Options**

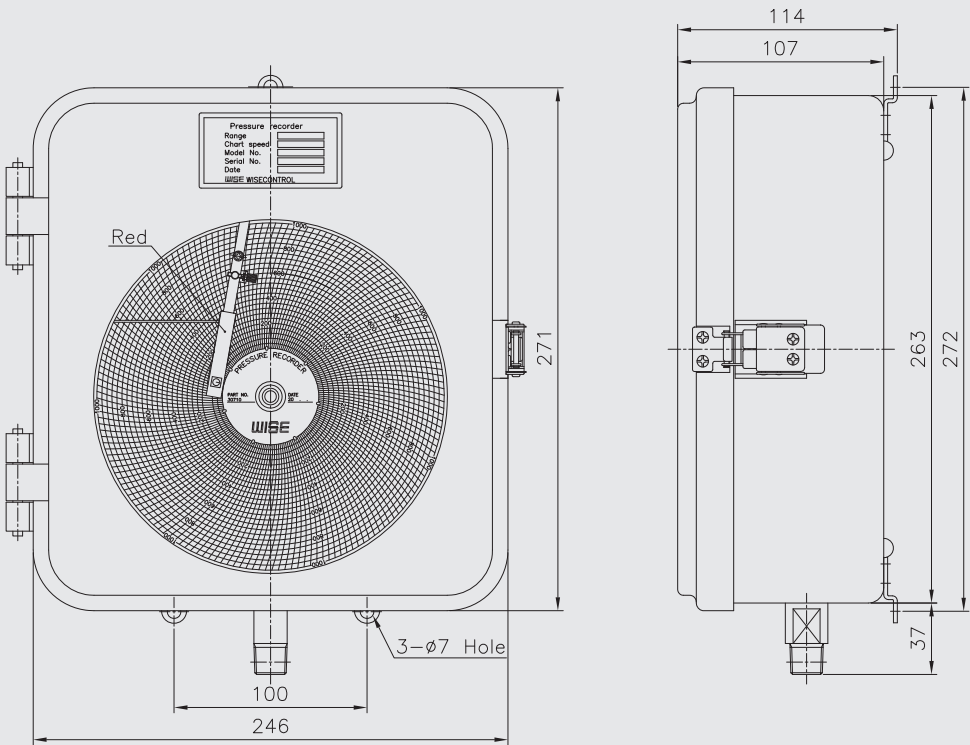
- 0** None  
**1** Accessories  
**2** Temperature sensor

1	2	3	4	5	6	7	8	9	10
P931	8	B	5	D	B	H	XXX	3	0

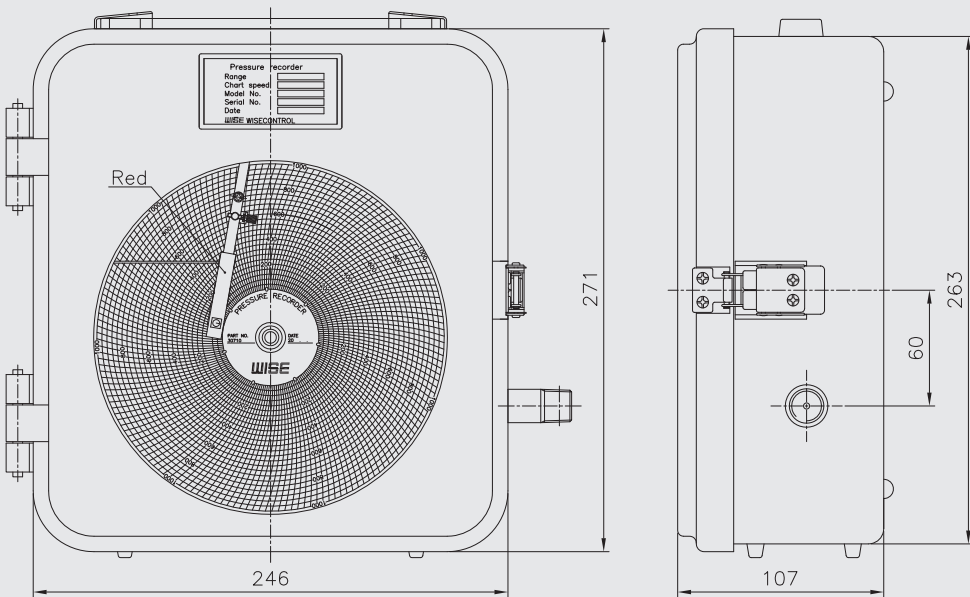
Sample  
ordering code

# P93X : Type of mounting (1/3)

Code P931

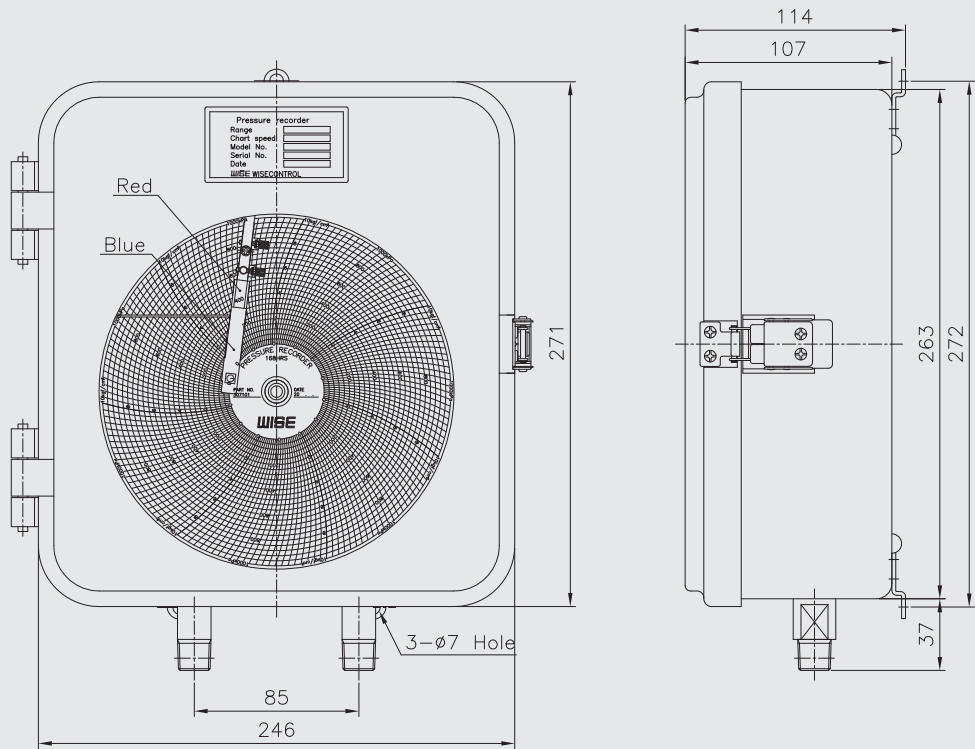


Code 933 (Portable type)

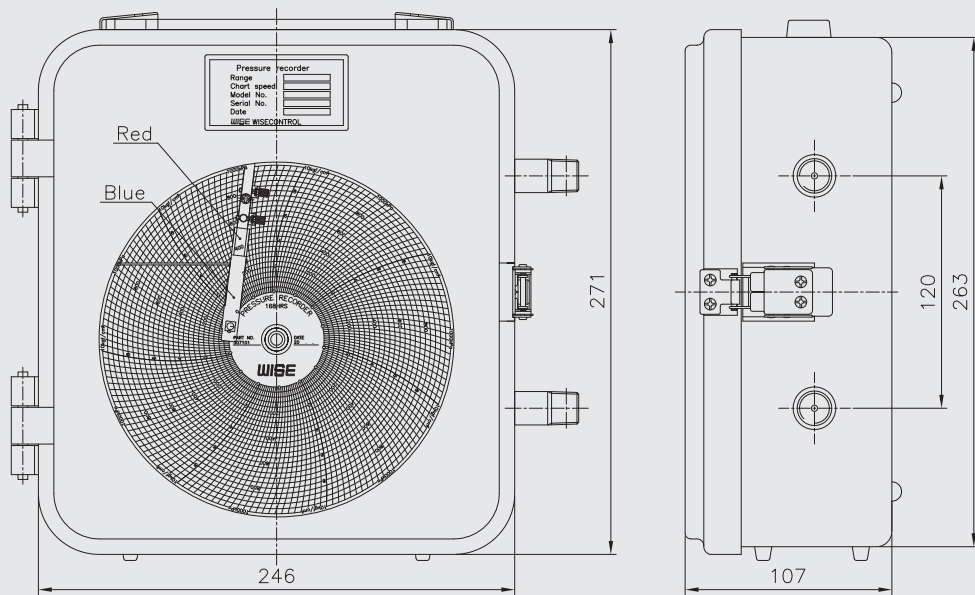


P93X : Type of mounting (2/3)

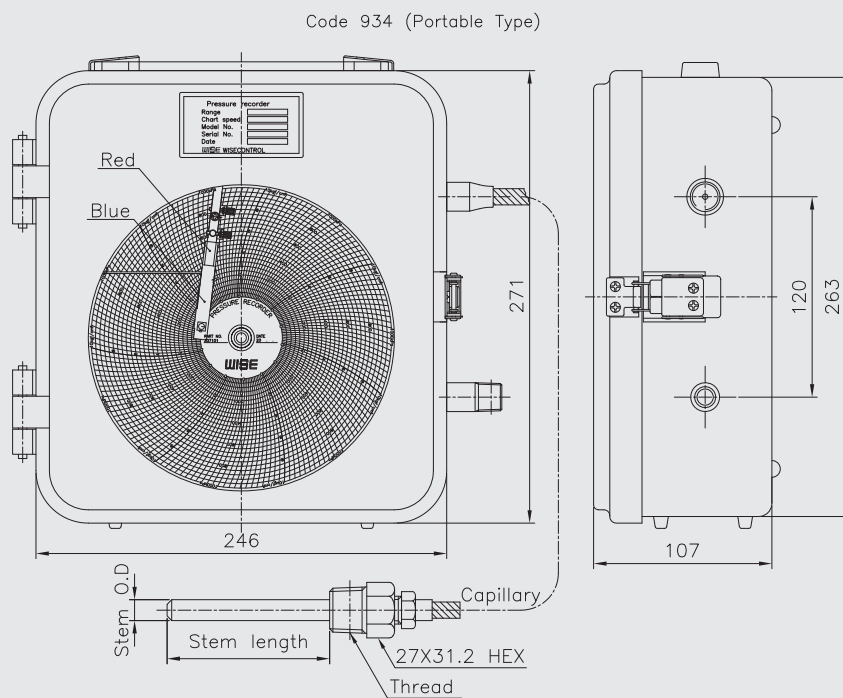
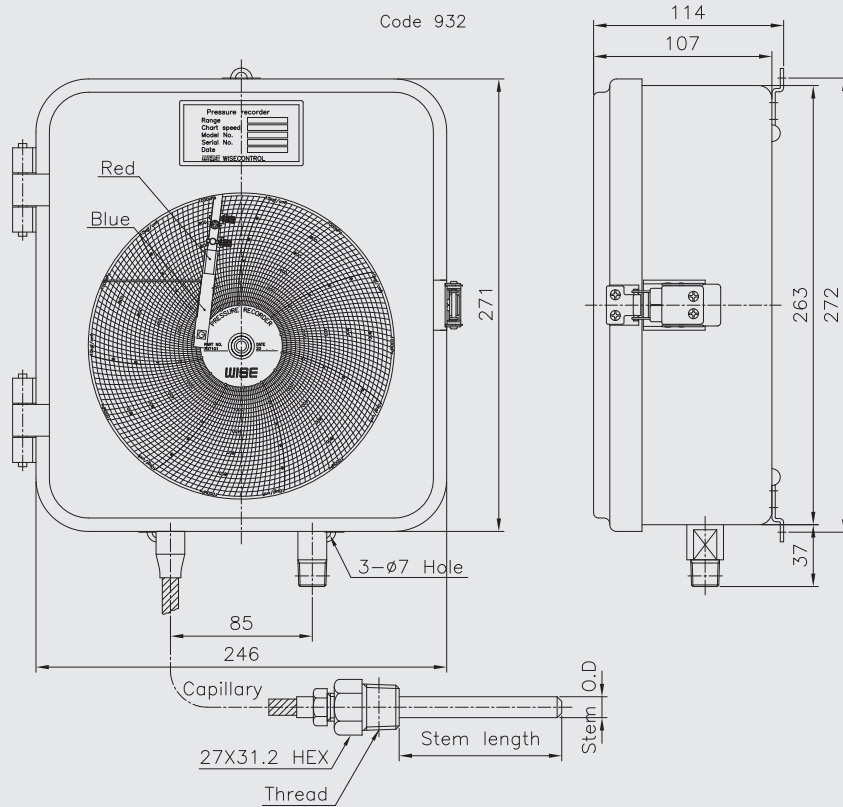
Code 932



Code 934 (Portable type)



## P93X : Type of mounting (3/3)



## Pressure range table

	Scale	P931	P932	P933	P934	Order code
Pressure gauge	0 ~ 5 kPa	X	Refer to under table	O	Refer to under table	465
	0 ~ 10 kPa	X		O		469
	0 ~ 50 kPa	O		O		040
	0 ~ 0.1 MPa	O		O		041
	0 ~ 0.2 MPa	O		O		042
	0 ~ 0.5 MPa	O		O		136
	0 ~ 1 MPa	O		O		047
	0 ~ 1.5 MPa	O		O		050
	0 ~ 2 MPa	O		O		051
	0 ~ 2.5 MPa	O		O		052
	0 ~ 3.5 MPa	O		O		054
	0 ~ 5 MPa	O		O		055
	0 ~ 7 MPa	O		O		057
	0 ~ 10 MPa	O		O		058

O : Available X : Not available

Scale (2 pen) type - P932, P934		Code
Higher	Lower	
0 ~ 0.1 MPa	0 ~ 10 kPa	201
0 ~ 1 MPa	0 ~ 5 kPa	202
0 ~ 1 MPa	0 ~ 10 kPa	203
0 ~ 1 MPa	0 ~ 0.1 MPa	204
0 ~ 1.5 MPa	0 ~ 5 kPa	205
0 ~ 1.5 MPa	0 ~ 10 kPa	206
0 ~ 1.5 MPa	0 ~ 0.1 MPa	207

### Ordering chart paper

Range	Order code	Range	Order code
0 ~ 5kPa	3071010380	0 ~ 5 MPa	3071010510
0 ~ 10 kPa	3071010390	0 ~ 7 MPa	3071010520
0 ~ 50 kPa	3071010400	0 ~ 10 MPa	3071010530
0 ~ 0.1 MPa	3071010410	0 ~ 0.1 MPa	3071010540
0 ~ 0.2 MPa	3071010420	0 ~ 1 MPa	3071010550
0 ~ 0.5 MPa	3071010440	0 ~ 1 MPa	3071010560
0 ~ 1 MPa	3071010460	0 ~ 1 MPa	3071010570
0 ~ 1.5 MPa	3071010470	0 ~ 1.5 MPa	3071010580
0 ~ 2 MPa	3071010480	0 ~ 1.5 MPa	3071010590
0 ~ 2.5 MPa	3071010490	0 ~ 1.5 MPa	3071010600
0 ~ 3.5 MPa	3071010500		

### Ordering pen

Pen description	Order code	Pen description	Order code
Red color (short pen)	3069040070	Blue color (Long pen)	3069040090

### Ordering clock

Clock description	Order code	Clock description	Order code
168 (7 days) hours (P931, P932)	3102040020	Portable (Battery) type (P933.P934)	3102040030