Explosion proof

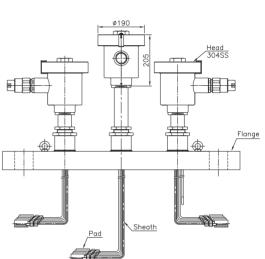
Multi point thermocouple and resistance temperature detector

Model: R930 series (RC series)

Spec. sheet no. RD09-04

Service intended

This type of detector is designed to be used in a situation where the user wants to measure the distributed temperature of a reactor or a container. It can measure horizontally distributed temperature and also can measure the temperature in each depth of the container or the reactor. It is also designed to consider the size of nozzle, installation space and requirement, and convenience of repairing and replacing. Wise Control Inc. can manufacture any types of multi point temperature sensors. and upon request of the customer, we can employ the requested material of protection tube, the material of sheath, size, measuring points, and the method of attaching the senor. Espscially, we can provide the temperature sensors without protection tube in a high pressure line by employing our own safety measures. The temperature sensors for junction box to connect the terminal can be manufactured in explosion proof type.



Standard features

Element

Thermocouple: K. E. J. T. N R.T.D.: Pt 100 Ω at 0 °C

Head material

Stainless steel

Aluminium

Number of measuring temperature point

Possible to manufacture according to customer's require number of point within the allowed range of nozzle bore.

One thermocouple head could contain up to 5 points element.

Tolerances on temperature reading

■ Thermocouple

Class 1, Class 2 (DIN/IEC584-2, BS/EN60584-2, JIS C1602) Special, Standard (ASTM E230 E988 ISA-MC96.1)

Class A: ±(0.15 + 0.002 | t |) Class B: $\pm (0.3 + 0.005 | t|)$

Sheath outer diameter

- Thermocouple
 - 3.2. 4.8. 6.4 and 8.0 mm
- R.T.D.

3.2, 4.8, 6.4 and 8.0 mm

Certificates

KCS Ex d IIC T6 IP67



Main order

Ordering information

1. Base model

- R931 Thermocouple single element
- R932 Thermocouple double element
- R933 RTD single element
- R934 RTD double element

2. Head material and tip shape type

- Α Stainless steel and ungrounged
- Stainless steel and grounged В
- С Aluminium and ungrounged
- D Aluminium and grounged

3. Head extension type and sealing location

- Nipple and head 0
- Nipple and flange 1
- 9 Other

4. Element (Tolerance)

- Κ K (0.75)
- J J (0.75)
- Т T (0.75)
- Ε E (0.5)
- Q Pt 100 Ω

5. Number of measuring temperature point

- Α 2
- В 3
- C 4
- D 5
- Ε 6
- F 7
- G 8
- 9 н
- J 10
- Κ 11
- L 12 M 13
- Ν 14
- Ρ 15
- Z Other

6. Sheath outer diameter (mm)

- 3.2 1
- 2 4.8
- 3 6.4
- 4 8.0

7. Sheath material

- 316SS 1
- 2 Inconel 600
- 3 310SS
- 446SS 4
- 5 347SS
- 6 321SS 316L SS 7
- 9 Other

8. Protecting tube material

None 0

9. Connection type

Refer to insert length table (12th and 13th character) XX

10. Insert length

Refer to insert length table (14th character)

11. Option

- 0 None
- 1 Accessories





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9 XX 10

11

Sample ordering code



Mounting, connection type and insert length table - 12th thru 14th characters

12 th character		13 th character		14 th character	
Code	Connection size	Code	Connection type	Code	Insert length (m)
0	1"	Α	NPT	Α	2
1	1¼"	В	PT	В	3
2	1½"	C	B16.5 Class 150 RF	С	4
3	2"	D	B16.5 Class 150 FF	D	5
4	2½"	Е	B16.5 Class 300 RF	Е	6
5	3"	F	B16.5 Class 300 FF	F	7
6	4"	G	B16.5 Class 600 RF	G	8
7	6"	Н	B16.5 Class 600 FF	Н	9
9	8"	J	B16.5 Class 900 RF	J	10
Α	12"	K	B16.5 Class 900 FF	K	15
В	24"	L	B16.5 Class 1,500 RF	L	20
Z	Other	M	B16.5 Class 1,500 FF	M	25
		N	B16.5 Class 1,500 RTJ	N	30
		Р	B16.5 Class 2,500 RF	Р	35
		Q	B16.5 Class 2,500 FF	Q	40
		R	B16.5 Class 2,500 RTJ	R	45
		S	JIS 10K RF	S	50
		Т	JIS 10K FF	Z	60
		U	JIS 20K RF	1	70
		V	JIS 20K FF	2	80
		Z	Other	3	90
				4	100
				5	110
				6	120
				Z	Other

^{14&}lt;sup>th</sup> characters note : Please choose the longest among measuring points.

