Sheathed type resistance temperature detector

Model : R220 series

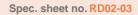
Service intended

Sheathed type RTD is constructed in a way that monolithic resistance element is connected with MI cable (MgO compacted metal sheathed lead wires), and has a

longer life and a fast response time.

High purity white gold resistance wire is used to perform with a better accuracy.

Except the end tip length of 60 mm, it could be bent 2 times more than its out diameter so can be used in the process pipe where it is not easy to install due to the obstacles exist around the installation site.







Standard features

Element

Pt 100Ω at 0°C

Head type

Compact Type	General Type Weatherproof		
060			
Explosion Proof Type	Explosion Proof Type Double Conduit		
Ex d LIC T6 LP67			
	Ex d IIC T6 IP67		

Tolerances on temperature reading

Class A : ± (0.15 + 0.002 | t l) Class B : ± (0.3 + 0.005 | t l)

Head material

ALDC (Standard) 304SS (Not available compact type) 316SS (Not available compact type)

Temperature range

-200 ~ 250°C (Film type element) -200 ~ 600°C (Ceramic type element)

Sheath material

316L SS

Sheath outer diameter

3.2, 4.8, 6.4 and 8.0 mm



Main order

Ordering information

1. Base model

- R221 Sheathed type resistance temperature detector (Single element)
- R222 Sheathed type resistance temperature detector (Double (Duplex) element)

2. Head type

- A General (Weatherproof)
- B General (Weatherproof) and spring loaded
- F Explosion proof
- L Compact (Small)
- P Explosion proof (Double conduit)

3. Element

- **Q** Pt 100Ω (B)
- 9 Pt 100Ω (A)

4. Sheath material

- 1 316SS
- 7 316L SS
- 9 Other

5. Sheath outer diameter (mm)

- **D9** 3.2
- **E9** 4.8
- **F9** 6.4
- **G9** 8.0

6. Conduit connection

- 1 ½" PF
- 2 ½" PT
- 3 ½" NPT
- 4 ¾" PF
- 5 ¾" PT
- 6 ¾" NPT
- 9 Other

7. Mounting type

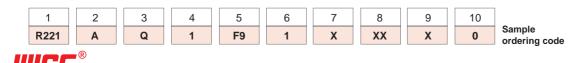
X Refer to mounting table (11th character)

8. Connection type

XX Refer to mounting table (12th and 13th character)

9. Insert length

X Refer to insert length table (14th character)



10. Option 0 None

- 1 Accessories
- 4 Epoxy coated ALDC head
- 5 Head material : 304SS (Only for weatherproof head)
- 6 Head material : 316SS (Not available for explosion proof-double conduit type)
- 7 Accessories and epoxy coated ALDC head
- 8 Accessories and head material : 304SS (Only for weatherproof head)
- 9 Accessories and head material : 316SS

11 th character		12 th character		13 th character		14 th character	
Code	Mounting	Code	Connection size and connector material	Code	Connection type	Code	Insert length (mm)
А	None	А	None	А	None	А	100 mm
	Fixed thread lag length						
В	80 mm	В	1∕₃" and 304SS	В	PT	В	200 mm
С	100 mm	С	1⁄4" and 304SS	С	NPT	С	300 mm
D	150 mm	D	3⁄8" and 304SS	D	PF	D	400 mm
E	200 mm	E	1⁄2" and 304SS	E	NPS	Е	500 mm
F	Other	F	³ ⁄ ₄ " and 304SS	F	UNF	F	600 mm
	Fixed flange lag length						
G	80 mm	G	1" and 304SS	G	BSPT	G	700 mm
H	100 mm	Н	1¼" and 304SS	H	BSPF	Н	800 mm
J	150 mm	J	1½" and 304SS	J	MM	J	900 mm
	Fixed flange lag length						
K	200 mm	K	2" and 304SS	K	ANSI 150 Lb RF	K	1,000 mm
L	Other	L	3" and 304SS	L	ANSI 150 Lb FF	L	1,500 mm
Μ	Movable thread	М	7∕ ₀ " and 304SS	Μ	ANSI 300 Lb RF	Μ	2,000 mm
N	Movable flange	N	1⁄8" and 316SS	N	ANSI 300 Lb FF	Ν	2,500 mm
Ρ	Compression fitting	Р	1/4" and 316SS	0	Sanitary	Р	3,000 mm
				P	ANSI 600 Lb RF		
	Union and nipple length						
Q	100 mm length	Q	3⁄8" and 316SS	Q	ANSI 600 Lb FF	Q	3,500 mm
R	150 mm length	R	½" and 316SS	R	JIS 5K RF	R	4,000 mm
*Y	150 mm length						
S	Other	S	³ ⁄ ₄ " and 316SS	S	JIS 5K FF	S	4,500 mm
	Nipple length						
Т	50 mm	Τ	1" and 316SS	T	JIS 10K RF	T	5,000 mm
U	100 mm	U	1¼" and 316SS	U	JIS 10K FF	U	6,000 mm
V	150 mm	V	1½" and 316SS	V	JIS 20K RF	V	7,000 mm
W	Other	W	2" and 316SS	W	JIS 20K FF	W	8,000 mm
X	Fixed thread	Х	3" and 316SS	Х	ANSI 1,500 Lb RTJ	Х	9,000 mm
Х		Y	7⁄16" and 316SS	Y	ANSI 2,500 Lb RTJ	Y	10,000 mm
Z	Other	Z	Other	Z	Other	Z	Other

Mounting, connection type and insert length table - 11th thru 14th characters

Note for 14th character, please choose a code of next higher length if applicable length is not. Actual length shall be specified. Note for *Y code (Oil sealing type), only available with spring-loaded head type.



Memo

