Heavy duty type resistance temperature detector
Model : R200

Spec. sheet no. RD02-01

Service intended
Among temperature sensors, it is the most stable and accurate sensor.
It has a better repeatability, and shows more dependable outputs than thermocouple.
It is possible to perform an area measuring, and has a better resistance against the containment . However, it has a slow response time due to its complexity of the resistance element and its big size. It is constructed with an insulated lead wire and with protection tube which is designed to protect the insulated lead wire.

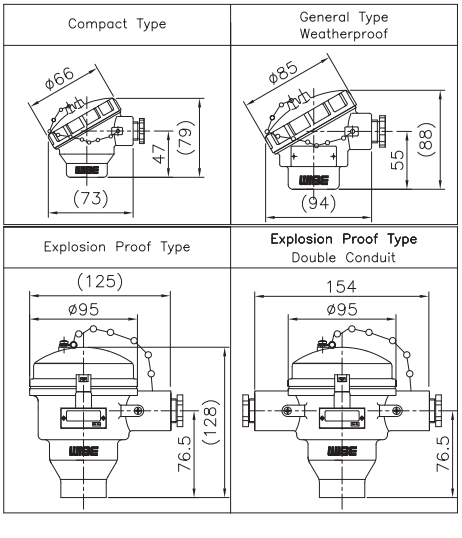
Extended lead wire type

Head type

Standard features

Element
Film sensor
Pt 100Ω at 0 ℃
TCR : 3,850 ppm/k

Head type



Tolerances on temperature reading
Class A : ± (0.15 + 0.002 l t l)
Class B : ± (0.3 + 0.005 l t l)

Head material
ALDC (Standard)

Temperature range
Class A : -60 ~ 250 ℃
Class B : -60 ~ 250 ℃

Sheath material
316L SS

Sheath outer diameter
6.4, 8.0 mm

1. Base model

R201 Heavy duty type resistance temperature detector (Single element)

R202 Heavy duty type resistance temperature detector (Double (Duplex) element)

2. Head type

A General (Weatherproof)
B General (Weatherproof) and spring - loaded
F Explosion proof
R Extended lead wire
P Explosion proof (Double conduit)

3. Tolerances on temperature reading

A A class (-60 ~ 250 ℃)
B B class (-60 ~ 250 ℃)

4. Sheath material

2 316L SS

5. Sheath outer diameter (mm)

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
7 None
8 M20 x 1.5P
9 Other

7. Lead wire length (m)

A 300 mm (Standard), Lead wire type only
B 1 (Lead wire type only)
C 2 (Lead wire type only)
D 3 (Lead wire type only)
E 4 (Lead wire type only)
F 5 (Lead wire type only)
G Other

8. Mounting type

X Refer to mounting table (12th character)

9. Connection type

XX Refer to mounting table (13th and 14th character)

10. Insert length

X Refer to insert length table (15th character)

11. 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

1	2	3	4	5	6	7	8	9	10	11	
R201	**A**	**P**	**1**	**F9**	**1**	**A**	**X**	**XX**	**X**	**0**	**Sample ordering code**

Mounting, connection type and insert length table - 12th thru 15th characters

12th character		13th character		14th character		15th character	
Code	Mounting	Code	Connection size and connector material	Code	Connection type	Code	Insert length (mm)
A	None	A	None	A	None	A	100
	Fixed thread lag length	B	⅛" and 304SS	B	PT	B	200
B	80 mm	C	¼" and 304SS	C	NPT	C	300
C	100 mm	D	⅜" and 304SS	D	PF	D	400
D	150 mm	E	½" and 304SS	E	NPS	E	500
E	200 mm	F	¾" and 304SS	F	UNF	F	600
F	Other	G	1" and 304SS	G	BSPT	G	700
	Fixed flange lag length	H	1¼" and 304SS	H	BSPF	H	800
G	80 mm	J	1½" and 304SS	J	MM	J	900
H	100 mm	K	2" and 304SS	K	B16.5 Class 150 RF	K	1,000
J	150 mm	L	3" and 304SS	L	B16.5 Class 150 FF	L	1,500
K	200 mm	M	7/16" and 304SS	M	B16.5 Class 300 RF	M	2,000
L	Other	N	⅛" and 316SS	N	B16.5 Class 300 FF	N	2,500
M	Movable thread	P	¼" and 316SS	O	Sanitary	P	3,000
N	Movable flange	Q	⅜" and 316SS	P	B16.5 Class 600 RF	Q	3,500
P	Compression fitting	R	½" and 316SS	Q	B16.5 Class 600 FF	R	4,000
	Union and nipple length	S	¾" and 316SS	R	JIS 5K RF	S	4,500
Q	100 mm length	T	1" and 316SS	S	JIS 5K FF	T	5,000
R	150 mm length	U	1¼" and 316SS	T	JIS 10K RF	U	6,000
S	Other	V	1½" and 316SS	U	JIS 10K FF	V	7,000
	Nipple length	W	2" and 316SS	V	JIS 20K RF	W	8,000
T	50 mm	X	3" and 316SS	W	JIS 20K FF	X	9,000
U	100 mm	Y	7/16" and 316SS	X	B16.5 Class 1,500 RTJ	Y	10,000
V	150 mm	Z	Other	Y	B16.5 Class 2,500 RTJ	Z	Other
W	Other			Z	Other		
X	Fixed thread						
Z	Other						

■ Note for 15th character, please choose a code of next higher length if applicable length is not. Actual length shall be specified.

Memo