

Resistant temperature detector with head Model RTH

General purpose and Ex-proof

Features

- High stability sensor
- Mineral insulated for flexibility and durability
- General purpose with spring loaded sensor
- Available with weather proof and explosion proof head
- Custom designs for specific applications

Ranges

-200 up to 600 °C -325 up to 1100 °F

Applications

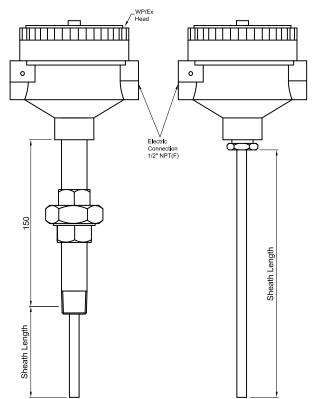
Chemical and petrochemical industry Machine and apparatus construction Pharmaceuticals, Dairy & Food process industry Pulp and paper industry

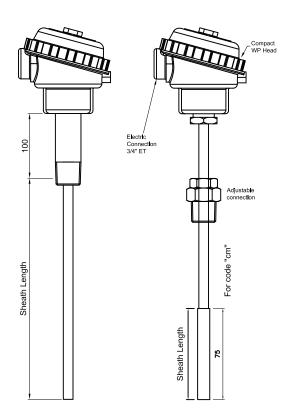


Technical specification	RTH
Head types	Compact, Weatherproof and Ex-proof heads.
Element	Pt100, Pt500, Pt1000
Element type	Simplex or duplex
Measuring principle	
Range	From -200 to 600 °C
Sheath diameter	6mm, 8mm, others on request
Sheath length	Rigid up to 1000mm,flexible with MI cable 6X5 upto 20000mm
Process connection	1/4", 1/2", 3/4" NPT/BSP, adjustable, Nipple or Nipple union nipple connections
Material	
Process connection	Stainless steel 316, optional SS321
Sheath	Stainless steel 316, optional SS 321
Housing	Aluminum, epoxy coated
Electrical specification	
Wiring configuration	2 wire, 3 wire and 4 wire
Lead wire	26-gauge standard copper wire, silver plated
Terminal	Ceramic block with nickel plated brass terminal, optional spring loaded terminal
Ex-proof	Zone 1 & 2 IIA / IIB / IIC T6 Enclosure Ex-d IEC 60079-1:2007
Insulation	100 X 10 ⁶ ohms minimum insulation when measured at 500 VDC
Electrical connection	3/4" ET(F) for compact head, 1/2" NPT(F) for WP & EX, others on request.
General specification	
Accuracy	Class "A" and Class "B" as per DIN EN 60751, optional 1/3rd & 1/10th DIN
Stability	±0.04 maximum ice-point resistance shift following 1,000 hrs at maximum specified temperature
Protection IEC 60529	IP65, IP66 for Ex-Proof
Accessories, options	Thermowell, Head mounted transmitters, etc.



General dimensions in mm





Order information

Head Type	Ele-	Element	Accuracy	Sheath	Sheath	Sheath	Process	Connection	Electrical connec-	Options
	ment	type	class	material	diameter	length	connection	Туре	tion	
(E) Compact weatherproof	Pt100	(S2) Simplex 2 wire	(1) 1/10 th Din	(S) SS316	(D6) 6 mm	55 to 1000	(=) None	(=) None	(=) Standard ³⁾	(NH) Tagging wired
head	Pt500		(3) 1/3 rd Din	(SA) SS321	(D8)	mm	(02) 1/4" NPT(M)	(F) Fixed Hex nut	(JM) M20X1.5 mm female	(ST) Spring loaded terminal ⁴⁾
(W) Weather proof	Pt1000		(A) Class 'A' -70/300C		8 mm		(04)	(NS) Nipple ²⁾	(B1) Ni plated brass double	(HT) Head mounted
(B) Ex proof enclosure		(S4) Simplex 4 wire	(B) Class 'B' -70/500C		(D10) 10 mm		1/2" NPT(M)	(US) Nipple union	compression cable gland ⁷⁾	transmitter (DE) Double entry for
IIA/IIB certi- fied		(D2) Duplex 2 wire	(EA) Extend-				3/4" NPT(M)	Nipple ²⁾	brass Ex	head ⁵⁾
(C) Ex proof		(D3) Duplex	ed tempera- ture Class A				(13) 1/4" BSP(M)	(D) adjustable connection	proof(IIA/IIB) cable gland ⁷⁾	(CM) MI cable extention ¹⁾
enclosure IIC certified		3 wire	-200/600C				(15) 1/2" BSP(M)	sliding on stem	(D1) Ni plated brass Ex proof(IIC) cable gland ⁷⁾	(CA) Stainless steel armored PTFE
							(17) 3/4" BSP(M)		(F1) SS double compression cable gland ⁷⁾	insulated extension cable ¹⁾⁶⁾
							(16) M20x1.5(M)		(G1) SS Ex proof (IIA/IIB) cable gland ⁷⁾	(TTS) Teflon- Teflon, SS braided ex- tension cable
									(H1)SS Ex proof Ex proof(IIC) cable gland ⁷⁾	
									(I1) Plastic cable gland PG13.5 ⁷⁾	

1) Specify length in meter EG. CM1.5 = CM with 1.5m, Max length 20m, only for sheath diameter 6mm

2) Only with connection 1/2" NPT/BSP 3) 3/4" ET for head (E) & 1/2" NPT for others 4) only with weather proof head 5) not for Head type (E) 6) Max temperature limit for extension cable is 250°C 7) For two cable gland, specify the codes as B2, C2... applicable only for (DE)

How to orde	er
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ead Type	Model	Element	Element type	Accuracy Class	Sheath Material	Sheath Diameter	Sheath Length	Process Connection	Connection Type	Electrical Connection	Option
С	RTH	Pt100	S3	Α	S	D6	100	04	D	=	ST