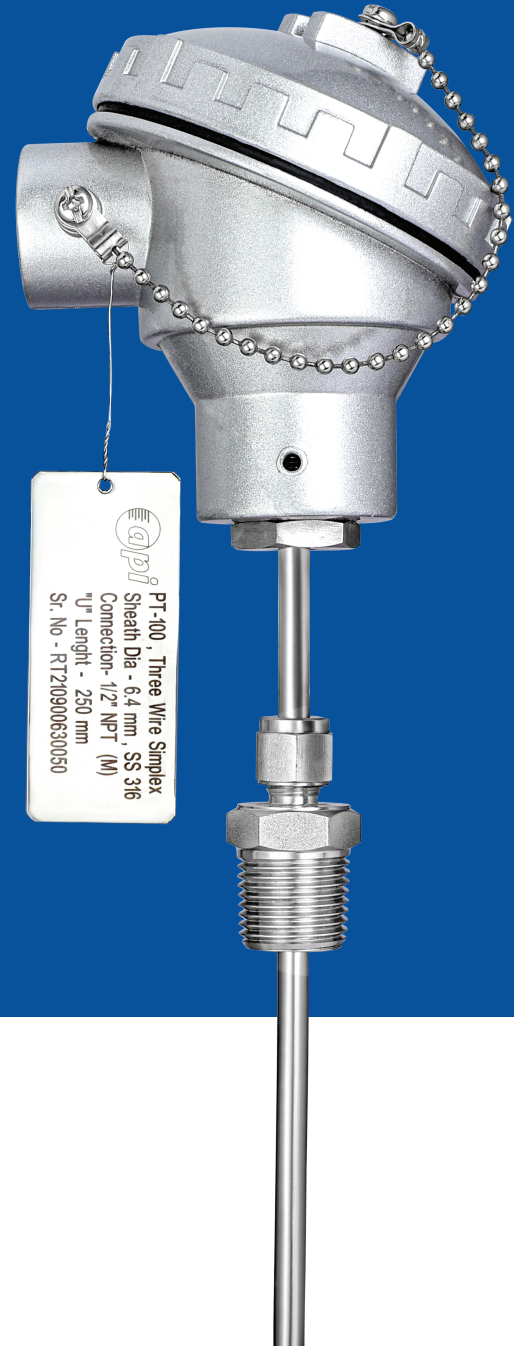


INDUSTRIAL RTD

MODEL S1.01



PRODUCT DESCRIPTION

A Resistance Temperature Detector is used to determine the temperature by measuring the resistance of an electrical wire. RTDs work on a basic correlation between metals and temperature. The resistance temperature detector uses the change in electrical resistance of the sensing element to determine its temperature. The RTD is one of the most accurate temperature sensors. Not only does it provide good accuracy, it also provides excellent stability and repeatability.



INDUSTRIAL RTD

MODEL S1.01

KEY FEATURES

- Mineral insulated enables flexibility Durability
- Available in various connections & sheath diameters
- Enclosures (Head)
 - Weatherproof IP-68
 - Flameproof Gr. IIA, IIB
 - Explosion proof IIA, IIB, IIC
 - ATEX Certification
- Transmitter output 4-20 mA (optional)
- Various Mounting options
- Standard Followed : IEC-751 / DIN 43760

SPECIFICATIONS

No of element	: Simplex & Duplex
Element type	: PT-100
Range	: -70 till 500 °C
Accuracy	: Class `A` Tolerance as per IEC-751 / DIN 43760
Wire Configuration	: 3 Wire System
Sheath Diameter	: 6 mm Dia.
Terminal Head Type	: Screwed type, Weatherproof, IP-68
No of Conduit Entry	: One, Two
Cable Gland	: 3/4" ET
Head Extension type	: Nipple extension, NUN extension
Extension Length	: 50mm,100mm,150mm
Immersion Length	: As per Customer requirement

SUGGESTED APPLICATIONS

- Oil & Gas applications
- Chemical & Petrochemical
- Water & Waste-water treatment
- Food & Beverages
- Utilities
- Power plants
- Fertilizer Plant
- Pharma

MATERIAL OF CONSTRUCTION

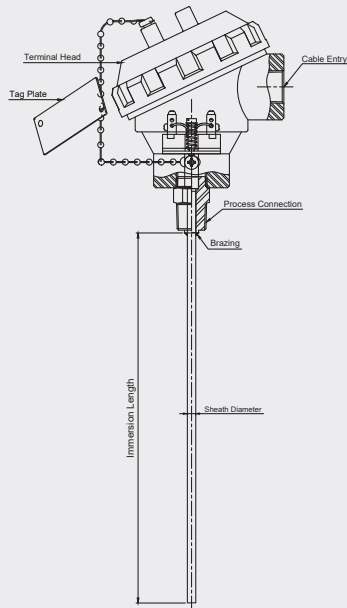
Terminal Head Type	: Die Cast Aluminum
Sheath material	: SS 316
Cable Gland	: Nickel plated brass, Single, Double Compression
Tag plate	: Stainless Steel

INDUSTRIAL RTD

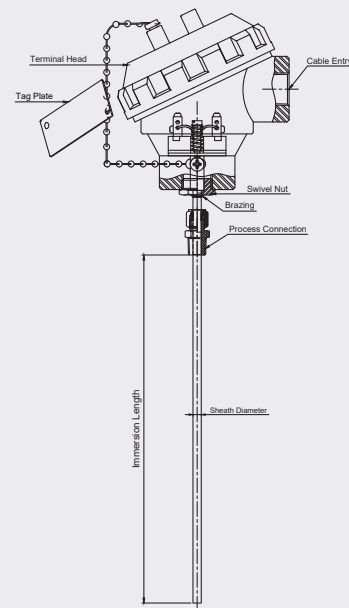
MODEL SI.01

DIMENSIONAL DRAWINGS

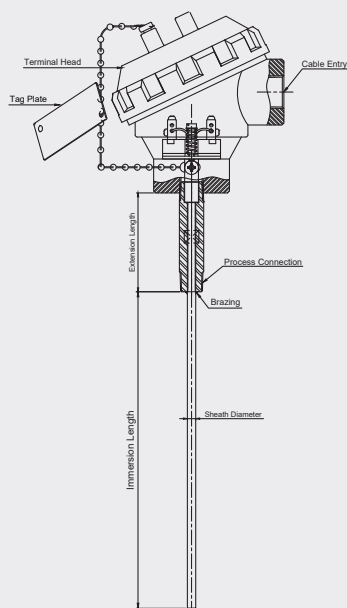
Fixed



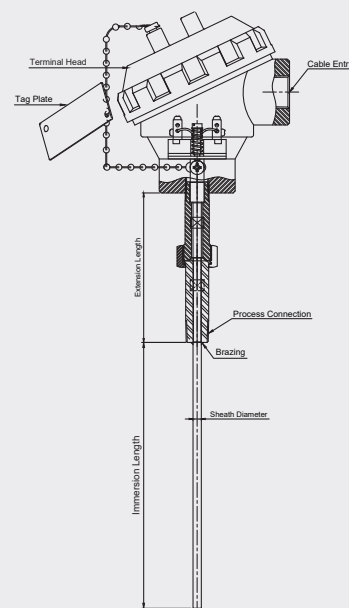
Adjustable



Nipple Extension



NUN Extension

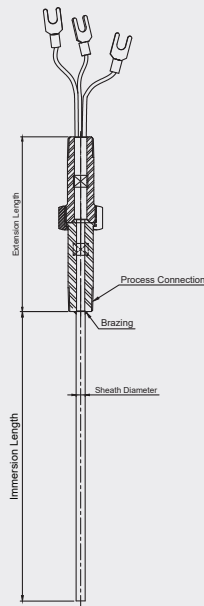


INDUSTRIAL RTD

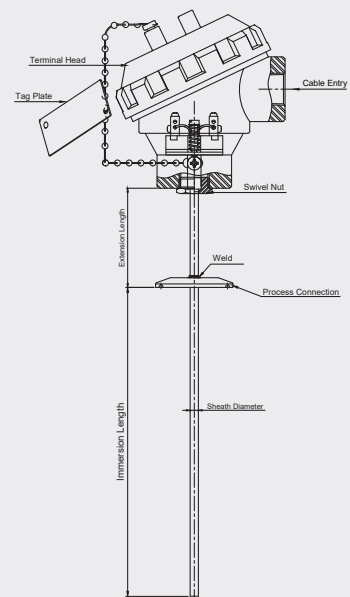
MODEL SI.01

DIMENSIONAL DRAWINGS

Direct Mount



Tri-clover



Important Notes: Above drawings are not to scale. All dimension are in mm

INDUSTRIAL RTD

MODEL S1.01

MODEL CODING & ORDERING INFORMATION

Description	CODE	S1.01	A	1	F	1	31	S6	B08	TH1	E3
Model											
Industrial RTD	S1.01	S1.01									
Version											
Fixed	F										
Adjustable	A		A								
Nipple Extension	N										
NUN Extension	U										
Direct Mount	D										
Tri-clover	T										
Sensor											
Pt-100	1			1							
Sensor Type											
Film (-200...+400 °C)	F				F						
Ceramic (0...+550 °C)	C										
Accuracy											
Class A	1					1					
Class B	2										
Wire Configuration											
Two Wire Simplex	21										
Two Wire Duplex	22										
Three Wire Simplex	31						31				
Three Wire Duplex	32										
Four Wire Simplex	41										
Four Wire Duplex	42										
Sheath Material											
SS 316	S6							S6			
Sheath Diameter											
Ø3.0 mm (*)	B03										
Ø6.0 mm	B06										
Ø8.0 mm	B08								B08		
*(For 3mm Sheath Dia. Duplex cannot be offered)											
Terminal Head Type											
None	XX										
Screwed type, Flameproof IP 68 Gr IIA IIB in Die-cast Aluminum	TH1									TH1	
Screwed Type, Explosion proof, IP 68 Gr IIC in Die-cast Aluminum	TH2										
Hinged Type, Weatherproof, IP 68 in Die Cast Aluminum	TH3										
Weather proof Head in Die-Cast Aluminum	TH4										
Screwed Type, Weather proof, IP 68 in Die Cast Aluminum	TH5										
Ex-Proof to CSA,FM,ATEX [EEx-d]	TH6										
SS 304-WP,IP-68	TH7										
SS 316-WP,IP-68	TH8										
Cable Entry Connection											
None	XX										
1/2" NPT (F)	E2										
1/2" BSP (F)	E3										E3
3/4" ET (F)	E5										
M20×1.5 (F)	E6										

INDUSTRIAL RTD

MODEL S1.01

MODEL CODING & ORDERING INFORMATION

DESCRIPTION	CODE	2	S4	100	XXX	12NF	X16
No. of Cable Entry							
One	1						
Two	2	2					
Head Extension Material							
CS Plated	CP						
SS 304	S4		S4				
SS 316	S6						
Extension Length							
50 mm	050						
75 mm	075						
100 mm	100			100			
150 mm	150						
200 mm	200						
250 mm	250						
Immersion length							
As per customer requirement in `mm'	XXX				XXX		
Process Connection							
1/4" BSP (M) (#)	14BM						
1/4" NPT (M) (#)	14NM						
1/2" BSP (M)	12BM						
1/2" NPT (M)	12NM						
1/2" NPT (F)	12NF					12NF	
1/2" BSP (F)	12BF						
3/4" BSP (M)	34BM						
3/4" NPT (M)	34NM						
3/4" BSP (F)	34BF						
3/4" NPT (F)	34NF						
M20x1.5 (M)	M20M						
1 1/2" TC	38TC						
2" TC	50TC						
3" TC	80TC						
# Suitable Sheath dia. for below 3 mm.							
Other Options							
Plug for Conduit entry in Aluminium	XCA						
SS base plate Suitable for Temperature transmitter	XBP						
Head mount transmitter [4...20 mA]	XHT						
Plug for Conduit entry in Carbon Steel	XPC						
Plug for Conduit entry in SS 304	XPS						
Calibration certificate	X16						X16
Plug for Conduit entry in SS 316	X23						
SS Tag plate	X26						
Single compression, WP, Ni-Brass	Q51						
Single compression, WP, AISI 304 SS	Q52						
Single compression, WP, AISI 316 SS	Q53						
Double compression, WP, Ni-Brass	Q54						
Double compression, WP, AISI 304 SS	Q55						
Double compression, WP, AISI 316 SS	Q56						
Double compression, FLP, Ni-Brass	Q57						
Double compression, FLP, AISI 304 SS	Q58						
Double compression, FLP, AISI 316 SS	Q59						

SAMPLE ORDERING CODE:

S1.01-A.1.F.1.31.S6.B08.TH1.E3.2.S4.100.XXX.12NF.X16

Note: Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing. Modifications may take place and material specified may be replaced by others without prior notice.