UTC1 Thermal Resistor Temperature Transducer

Description

UTC1 thermal resistor temperature transducer is working by using platinum resistance changes along with temperature varies, whose changes have such characteristic of certain functional relations to realize temperature measurement.

UTC1 usually works together with display for temperature transmitters and computer systems, to measure the surface temperature of kinds of liquids, gas, or solids within -50℃~+160℃ in many production process.

simple type

armor type

Features

- Anti-vibration, good stability, high accuracy
- Pt100, Pt1000 optional
- Explosion-proof: Exia II BT4 (instrinsic safety)

Specifications

measuring media	gas or liquids compitable stainless steel
thermal resistor	Platinum resistor
temperature ranges	-50~+600℃
insert depth	≥10mm(as customer's request)
measuring element	Pt100,Pt1000
resistance at 0℃	100±0.06Ω
allowed deviation △℃	class A ±(0.15+0.002|t|)
long-term stability	<0.15%FS/year
thermal response time	<30S
insulation resistance	100MΩ@100VDC
let-through current	≤5mA
explosive-proof	ExiaIIBT4, ExdIIBT4

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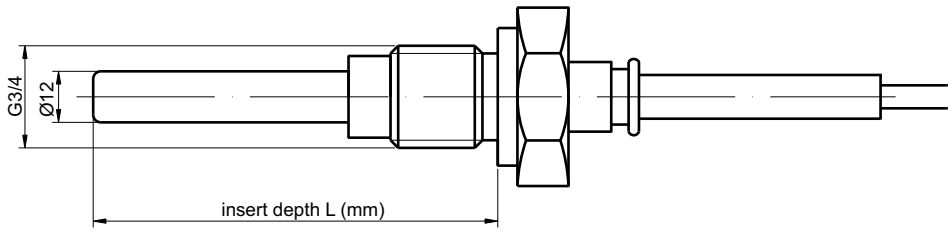
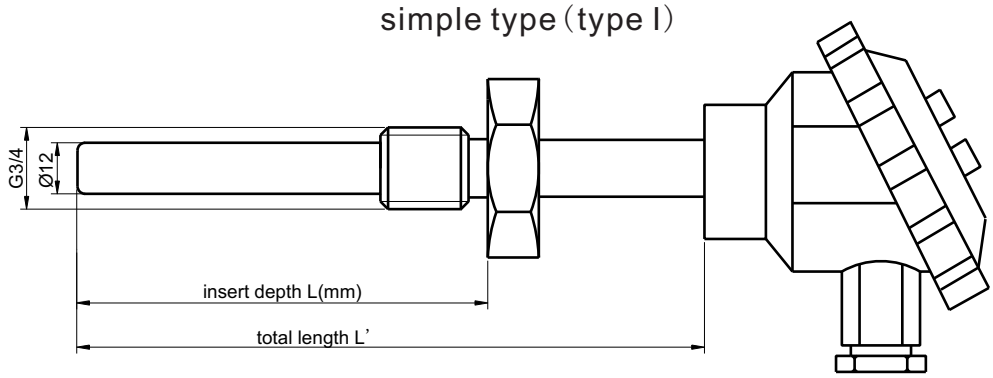
Dimensions



simple type（type I）



armor type（typeII）

Ordering code

UTC1- I	simple type (type I)				
UTC1- II	armor type (type II)				
	code	measuring range			
	(X1~X2)	-50~600℃			
		code	measuring element		
		P1	Pt100		
		P2	Pt1000		
			code	process connection	
			T0	fixed thread	
			T1	fixed flange	
			T2	moveable thread	
			T3	moveable flange	
			Tz	customer request	
				code	other function
				E0	PVC cable
				E1	hirchmman connector
				E2	aviation connector
				Ei	instrinsic safety
				Ez	customer special request
					insert depth L(mm) - total length L'
UTC1- II	0~200℃	P1	T0	E0	80-120

*: for armor type product, please indicate the requirement for L' when ordering.

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