

## Description

UTC1 thermal resistor temperature transducer is working by using platinum resistance changes with temperature variations to realize temperature measurement.

UTC1 usually works together with display for temperature transmitters and computer systems, to measure the surface temperature of liquids, gases, or solids within  $-50\text{ }^{\circ}\text{C} \sim +600\text{ }^{\circ}\text{C}$  in many production processes



simple type



armor type

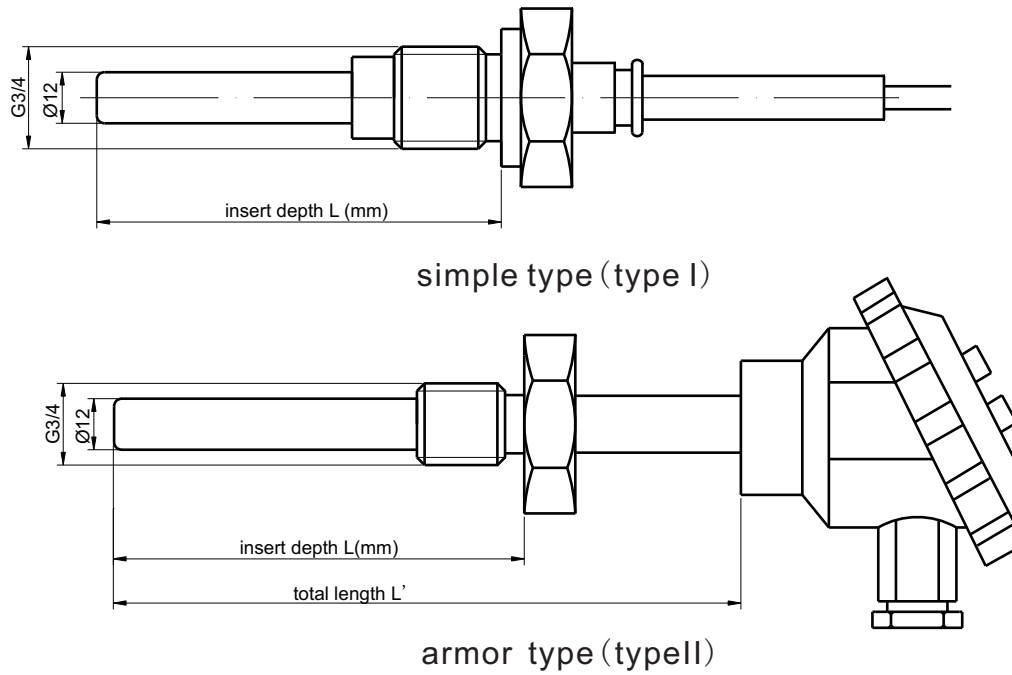
## Features

- Anti-vibration, good stability, high accuracy
- Pt100, Pt1000 optional
- Explosion-proof: Exia IIBT4 (intrinsic safety)

## Specifications

measuring media	gas or liquids compatible stainless steel
thermal resistor	Platinum resistor
temperature range	$-50\sim+600\text{ }^{\circ}\text{C}$
insert depth	$\geq 10\text{mm}$ (as customer's request)
measuring element	Pt100, Pt1000
resistance at $0\text{ }^{\circ}\text{C}$	$100\pm 0.06\Omega$
allowed deviation $\Delta\text{ }^{\circ}\text{C}$	class A $\pm(0.15+0.002 t )$
long-term stability	$<0.15\%$ FS/year
thermal response time	$<30\text{S}$
insulation resistance	$100\text{M}\Omega@100\text{VDC}$
let-through current	$\leq 5\text{mA}$
explosive-proof	Exia IIBT4, Exd IIBT4

## Dimensions



## Ordering code

UTC1- I	simple type (type I)				
UTC1- II	armor type (type II)				
	code	measuring range			
	(X1~X2)	-50~600°C			
	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			
					insert depth L(mm) - total length L'
UTC1- II	0~200°C		T0	E0	80-120