

Description

Based on advanced electric circuit integration and processing technology, UTB11 Pin Rail Mounted temperature transmitter is made from temperature sensors, realizing precision measurement for temperature on the spot. UTB11 uses two-wire system transmitting method (two wires work as power input, simultaneously work as public transmission line of signal output), converting temperature element signal to 4~20mA output signal.

UTB11 Pin Rail Mounted temperature transmitter uses standard DIN35 Pin Rail mount, and it is featured with small volume, high conversion accuracy, stable performance, simple & convenient disassembling etc.

UTB11's performance is reliable and stable; it is the ideal system unit for intelligent regulator and DCS system. UTB11 is widely used in electric power, petrochemical industry, scientific research, industrial measurement, medicine, chemical industry, machine manufacturing, and metallurgy for temperature measurements.



Features

- Input can be various thermal resistors or thermocouple signal.
- Vibration-proof, moisture-proof, suitable for operation in bad environment conditions.
- Can be mounted on the rail in control cabinet, generate 4~20mA output signal directly.
- High accuracy, low power consumption, working performance is stable and reliable.
- Application is wide, not only to realize integrated field installation structure, but it can also be mounted as functional module in testing equipment
- DIN Rail mount

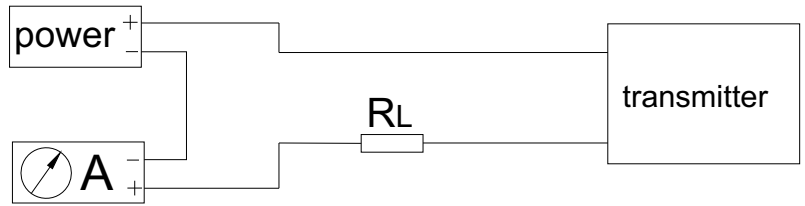


Specifications

temperature measurement element	thermal resistor: Pt100,Pt1000, Cu50 or others thermocouple: K,E,J or others
measured medium's temperature	-50℃~+1800℃
output signal	4~20mA or others
communication	HART protocol option
accuracy	0.1%FS(special requested),0.2%FS,0.5%FS(standard)
ambient temperature range	-20℃~+80℃
relative humidity	5~90%RH(no condensation)
temperature limit	120% of measured range
power supply	24V DC
long term stability	0.15%FS/year
load resistance	>500Ω(24V supply)
circuit temperature shift	<±0.5%FS/50℃
power consumption	<0.6W
housing material	thermostable and anti-flaming material
mount type	DIN Rail Mount, Rail Size 35mm

Electrical connection

connection	cable color(pin)
power“+”	(12)
signal“+”	(11)



note : please refer to user manual for actual wiring

Ordering code

UTB11				
measuring element		measuring ranges		
E		0~750°C		
K		0~1300°C		
S		0~1600°C		
B		0~1800°C		
Pt100		-50~500°C		
Pt1000		-100~500°C		
Cu50		-50~150°C		
		code	accuracy	
		B	0.1%FS(available on request)	
		C	0.25%FS	
		D	0.5%FS(standard)	
		code	output signal	
		O1	4~20mA	
		O2	0~5V	
		O4	0~10V	
		O5	4~20mA with HART protocol	
UTB11	Pt100	0~200°C	D	O1