UTI5 Intelligent Temperature Transmitter

Description

Based on the international most advanced digital integration technology, UTI5 intelligent temperature transmitter is a new generation intelligent meter for matching the demand of industry automatic controls. UTI5 is made with rigorous structure and artistic outlook. Its hardware uses few primary devices and do not have movable components like potentiometer and so on. This product is featured with simple operation, good reliability and high stability.

UTI5 realizes communication through HART Protocol; it uses Frequency Shift Keying (FSK) technology according to industrial standard Bell202. Through using a high frequency signal on the 4-20mA output signal to realize long-distance communication. The configuration data is stored in the non-volatility EEPROM memory of transmitter's PCB. These data still could be saved even the power is off; therefore the transmitter can work immediately once it is powered.

UTI5 is widely used in chemical industry, petroleum industry, metallurgy industry, light industry, food industry electric power, energy management etc.
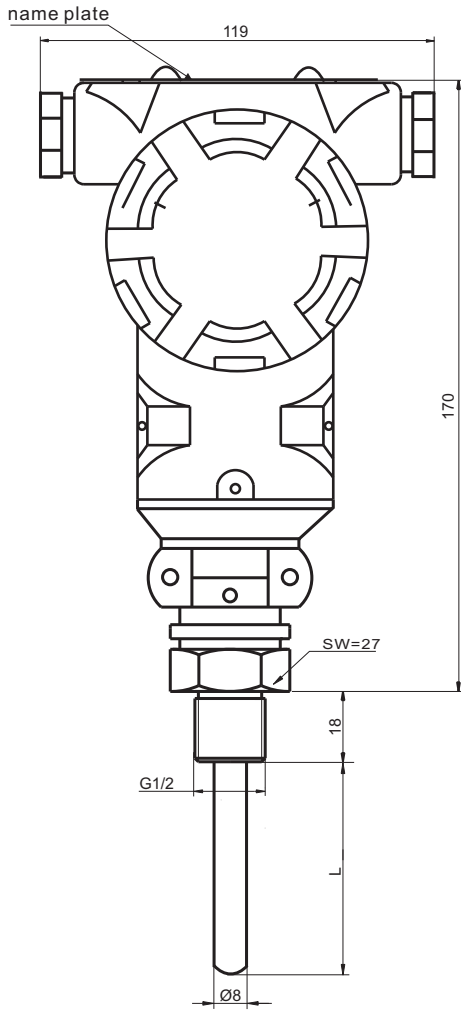
Features

- Suitable for different temperature transmitter
- Compact size, integrated configuration, real-time display
- Simple operation, do not use HART communicator, zero and span adjustment, range-setting, and graduation input can be realized through the keys on panel
- Have self-diagnosis function, long-distance configuration
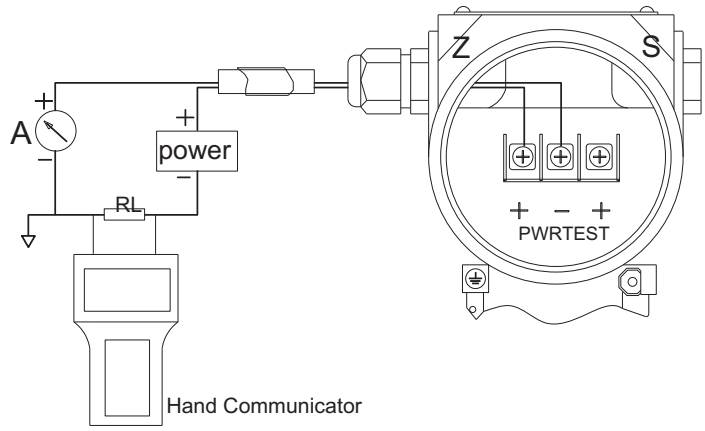- Correcting precision & unit switching

Specifications

measuring	gas or liquids compatible to stainless steel
temperature ranges	thermocouple：E：0~750℃; K:0~1200℃;S：0~1300℃; B:0~1600℃ thermoresistor：PT100：-200~500℃
insert depth	20mm~2000mm(as customer's request)
accuracy	0.5%FS
output signal	4~20mA with HART protocol
long-term stability	<0.1%FS/year
supply voltage	12~32V DC
insulation resistance	100MΩ@50VDC
operating temperature range	-30~+80℃
display	LCD digital indicator in ℃ unit
temperature coefficient of zero	0.2%FS/10℃
temperature coefficient of span	0.2%FS/10℃
process connection	M20×1.5 or others
electrical connection	M20×1.5 (female)
material of wetted part	304 stainless steel
material of housing	cast alaluminium
explosive-proof	Exia II BT4,Exd II BT4

Dimensions

name plate

119

170

SW=27

18

G1/2

L

Ø8

Electrical connection

A

power

RL

Hand Communicator

Z

S

PWR TEST

+ − +

Intelligent 4~20mA output with HART protocol

Ordering code

UTI5				
	range	measuring range: -200...+1300℃		
	(X1~X2)bar	X1: lower limit of actual measuring range, X2: higher limit of actual measusring range		
		code	temperature sensor type	
		E	"E" type thermocouple: 0~750℃	
		K	"K" type thermocouple: 0~1200℃	
		S	"S" type thermocouple: 0~1300℃	
		P	Pt100 thermal resistor: -200~500℃	
		Z	custom request	
			code	process connection
			0	G1/2
			1	M20×1.5
			Z	customer request
				insert length L(mm)
UTI5	0~200℃	P	1	80