

Description

UT11 is made with integrated construction for the direct measurement of various of liquid, gas and solid's surface temperature in the range of $-200^{\circ}\text{C}\sim 500^{\circ}\text{C}$. This product is made of imported temperature element, and uses special temperature module to adjust the temperature element's linearity and output standard analog signal. UT11 is featured with good performance and stability. It is sealed with epoxy resin, this construction makes UT11 have good ability on anti-shock and withstand high temperature, also have high mechanical strength, is suitable for the application in bad working condition. UT11 can emit digital signal to carry on data transmission with computers directly.

UT11 has widely been used for temperature measurement in such industries as petroleum industry, chemical industry, spinning and weaving, mine, medicine, electric power, environmental protection, municipal administration, food industry as well as scientific research and so on.

Features

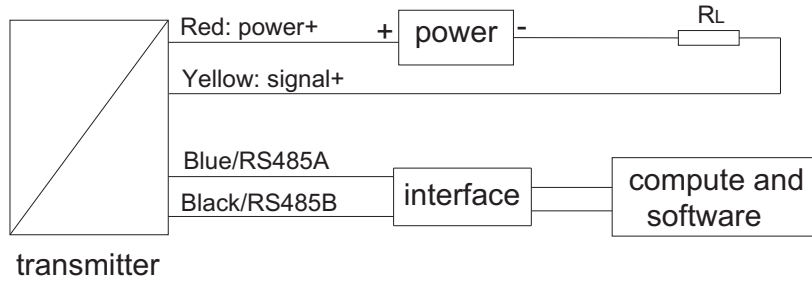
- Compact size, easy installation
- Using Pt100 thermal resistor
- RS485 half-duplex communication, baudrate can be choosed, communication address can be set.
- MODBUS protocol RTU code



Specifications

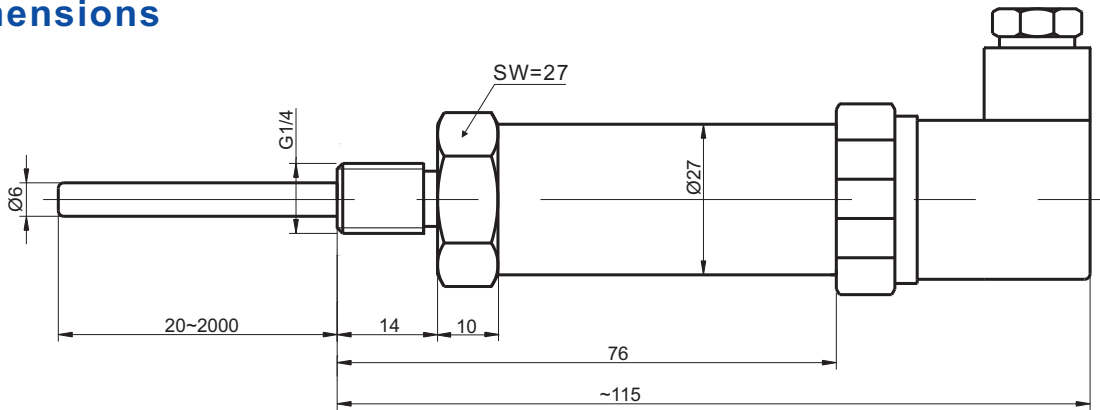
temperature measurement element	Pt100 thermal resistor
measured medium	gas or liquid compatible to stainless steel
measured medium's temperature	$-200^{\circ}\text{C}\sim +500^{\circ}\text{C}$
insert depth	50mm~2500mm(can be made upon customer's request)
output signal	4~20mA
communication	MODBUS protocol RTU code(RS485 interface)
accuracy	0.5%FS
ambient temperature range	$-30^{\circ}\text{C}\sim +80^{\circ}\text{C}$
storage temperature range	$-40^{\circ}\text{C}\sim +100^{\circ}\text{C}$
temperature limit	120% of measured range
power supply	10~30VDC(15~30VDC for with indicator)
long term stability	0.1%FS/year
load resistance	$>500\Omega$ (24V supply)
circuit temperature shift	$<\pm 0.75\% \text{FS}/50^{\circ}\text{C}$
response time	$<1\text{ms}$
process connection	G1/4 or others
electrical connection	hirschmann connector(DIN)
material of housing	304 stainless steel

Electrical connection



Electrical connection of RS485 interface communication

Dimensions



Ordering code

UT11						
UT11	range	measuring range: -200~+500°C				
	(X1~X2)°C	X1-lower limit of measured temperature, X2-higher limit of measured temperature				
	code	output and communication				
	R	MODBUS RTU (RS 485 interface)				
	S	MODBUS RTU and 4~20mA output Simultaneous				
	code	process connection				
	P2	G1/2				
	P4	M20×1.5				
	P5	1/2NPT				
	Pz	customer request				
code	electrical connection					
E1	hirschmann connector					
E2	aviation connector					
Ez	customer request					
	insert length L(mm)					
UT11	(0~100)°C	R	P2	E1	50mm	