

MCT80A Intelligent Temperature Transmitter Module

MCT80A intelligent temperature transmitter module is a smart transmitter module with high precision and high stability. It can be installed in the case of a thermal resistor or thermocouple and functions as a converter to transmit the temperature signal to remote device. It inherits standard current or voltage output signal and can output HART protocol commands and some custom commands as well. It is compatible with more than ten types of thermocouple and thermal resistance signal transducers. This product USES 24 Σ - delta



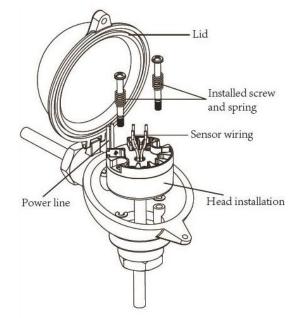
sampling chip, ensures high precision measurement. Anti-surge and anti-reverse connection design avoid mis-installation and mis-operation in engineering installation and enhanced software safety design is adopted to ensure long service life and stability.

Technical Parameters

Power: 12~35VDC Output: HART, 4-20mA, and others Precision: RTD 0.1%; TC 0.2% Current Limit: 20.8mA Excitation current: 210uA Sensor: thermal resistors, thermocouples Load: \leq 500 Ω Stock Temperature: -40~120 °C

Temperature coefficient: ≤25ppm/°C F.S.

Shell Material: PA66 Working Temperature: -30~80 °C Installation Screw: M4*2



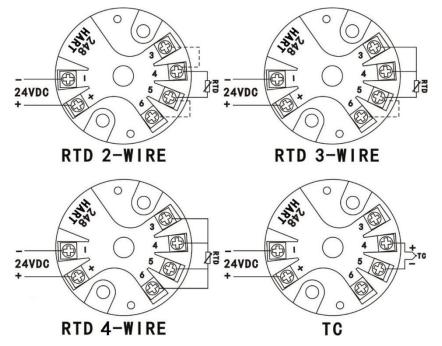
Temperature Sensor	Туре	Temperature Range
Thermal Resistor (RTD)	Pt100	-200∼800°C
	Cu50	-50∼150°C
	Cu100	-50∼150°C
	Pt1000 (Customized)	-50∼200°C
Thermocouple (TC)	В	300∼1800° C
	E	0∼1800°C
	J	0∼1200°C
	К	0∼1300°C
	Ν	-200~1300°C
	R	0∼1700°C
	S	0∼1700°C



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Т	-200∼400°C
Wre3-25 (Customized)	0∼2300°C
Wre5-26 (Customized)	0∼2300°C

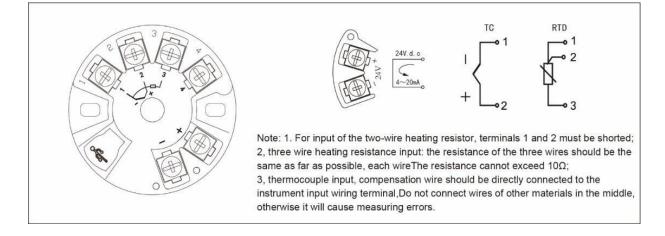
Connection Mode



A) Terminal 1 and terminal 2 are the positive and negative poles of 24V power respectively, and the module is equipped with anti-reverse connection function.

B) The thermal resistance connection supports two-wire, three-wire or four-wire system. The connection mode is shown in the figure above, in which the dashed line is the short connection at the end of the watch head, and the user needs to connect it by himself with a short wire.

C) The positive pole of the thermocouple can be connected with terminal 4, and the negative pole can be connected with terminal 5.





Model Selection

MCT80A	Temperature Transmitter Module		
-	Output	None: 4-20mA 2-wires	
		H: 4-20mA + HART	
		2: 0-5V	
		3: 0-10V	
		4: 0-20mA	
		5: 1-5V	
		9: RS485	
		0: customer specified	
-	(Default input type)	Pt100	
		Pt1000	
		Cu50	
		Cu100	
		В	
		E	
		J	
		К	
		N	
		R	
		S	
		т	
		WRe3-25	
		WRe5-26	
-	(Temperature range)	e.g. (0-100℃) or (0-200°F) etc.	
-D	Display	1: Without	
		2: LED	
		3: LCD	
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MCT80A

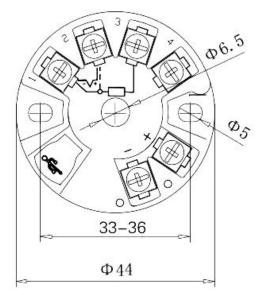


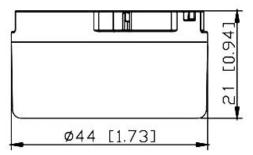
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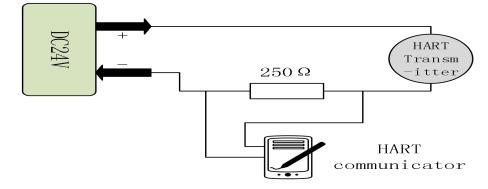


Dimensions

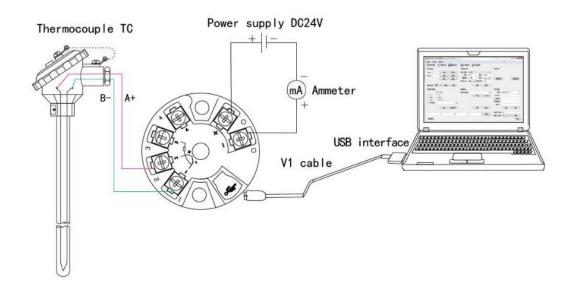




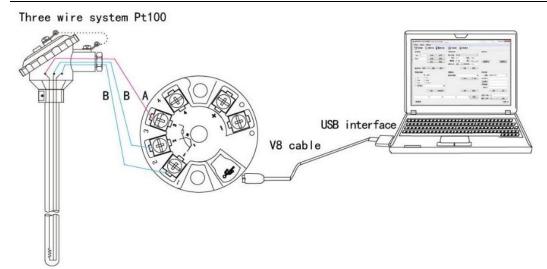
Hart Operator Connection Diagram



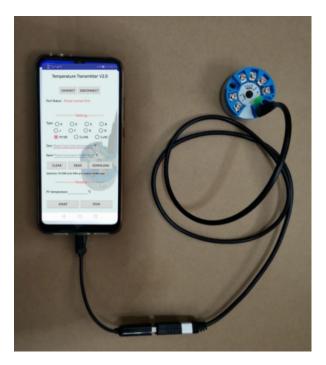
The module can be calibrate by computer:







The module can be calibrate by smart phone:



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Temperature Transmitter V2.0				
CONNECT	DISCONNECT			
Port Status: Disconnect				
\$	Setting			
Туре () К () Е	е О S О В			
) Cu100 () Cu50			
Zero Please input zero	temperature °C			
Span Please input spa	n temperature °C			
CLEAR RE	AD DOWNLOAD			
Attention: Pt1000 and WRe are custom-made type				
N	Monitor			
PV temperature	°			
START	STOP			
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