

WMT180Y Temperature Transmitter



WMT180Y Temperature Transmitter is a kind of instrument which can be on-site installed to measure temperature and transmit corresponding signal. It consists of thermocouple or RTD and temperature transmitter module that adopts two-wire output of 4~20mA DC or other user specified signals for transmission. It is extensively applied in the petroleum, chemistry industry, metallurgy, electric power, textile industry, food processing etc.

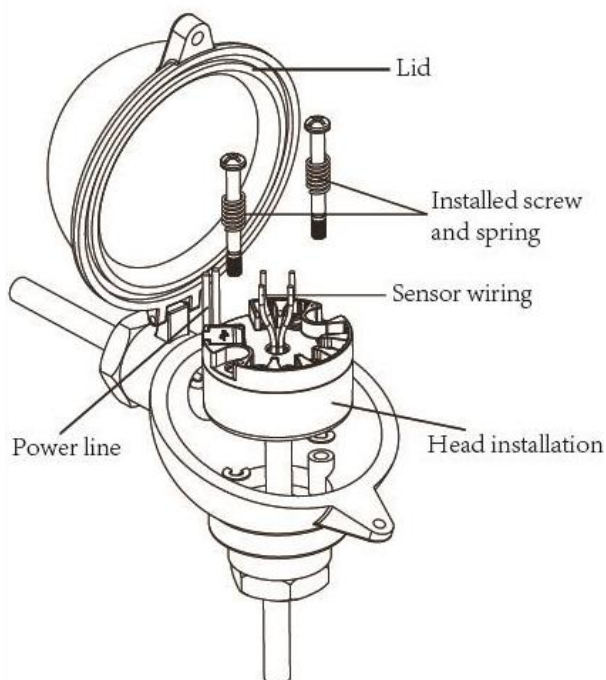
WMT180Y temperature transmitter can be used to measure the temperature of liquid, steam, gas and the solid surface ranging -200°C to 1800°C. It is noted for their flexibility, wear resistance, vibration resistance and high temperature resistance. The outer protective tube of the armored thermo element is made of stainless steel and in which high density oxide is used as the insulating layer, it is pollution resistance and enough mechanical strength, in order to meet the adverse circumstances.

WMT180Y temperature transmitter consists of temperature sensitive components, protection tube made of stainless steel, joint box, and fixture for different purposes. WMT180Y can be made by assembly structure or sheathed structure. In comparison with assembly type, the sheathed is with small diameter, easy to bend, perfect vibration endurance, suitable for the place where assembly type is not suitable.



Technical specification

- Compensation for cool end with high accuracy
- Various output signal optional
- Range: -200~1800℃
- Accuracy: $\pm 0.5\%$
- Output: 4-20mA (two-wire) or user specified
- Power supply: 14-34VDC
- Load: 0-500Ω (for 24VDC)
- Humidity: 5~95%
- Accuracy of module: 0.25%
- Power consume: $< 0.5W$



Model selection

WMT180	Temperature Transmitter	
-	Case type	Y: Water-proof type YE: Ex-proof type S: Hersman connection X: 120 Housing (with or without display) C: Customer specified
-	Type of temperature sensor	R: RTD C: Thermocouple
-	(Temperature range)	e.g. (0-100℃) or (0-200°F) etc.
-	Output nods	None: Single output D: Dual output
-	Material of wet parts	-SS: SS wet parts -F4: PTFE lined wet parts -CR: Ceramic probe -O: specified For SS (stainless steel) , please specified 304SS or 316SS.
-	Signal output	S1: 4-20mA S2: 0-5V S3: 0-10V S4: RTD S5: Thermocouple S8: 4-20mA + HART S9: RS485 S0: customer specified

-D	Display	1: Without 2: LED 3: LCD
-A	Installment type	1: fixed thread 2: slide adjustable thread 3: rotatable adjustable thread 4: flange 5: clamp 6: none thread or flange 0: customer specified
	Thermo well	None: without TW: with thermo well
-	Size of installment	e.g. for A1, -1/2BSP or -M20*1.5 etc.; for A3, -2" or 3" etc.
-	(Diameter of Probe)	E.g. -6 (6mm), or -1/4". etc.
-	(Length of Probe)	E.g. -200 (200mm), or -8". etc.

WMT180Y water proof case:

WMT180YE ex-proof type:


WMT180S type:



WMT180X



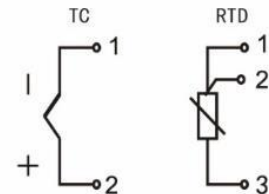
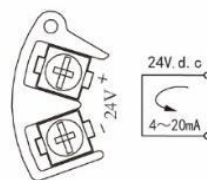
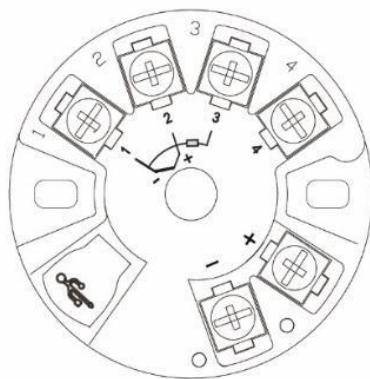
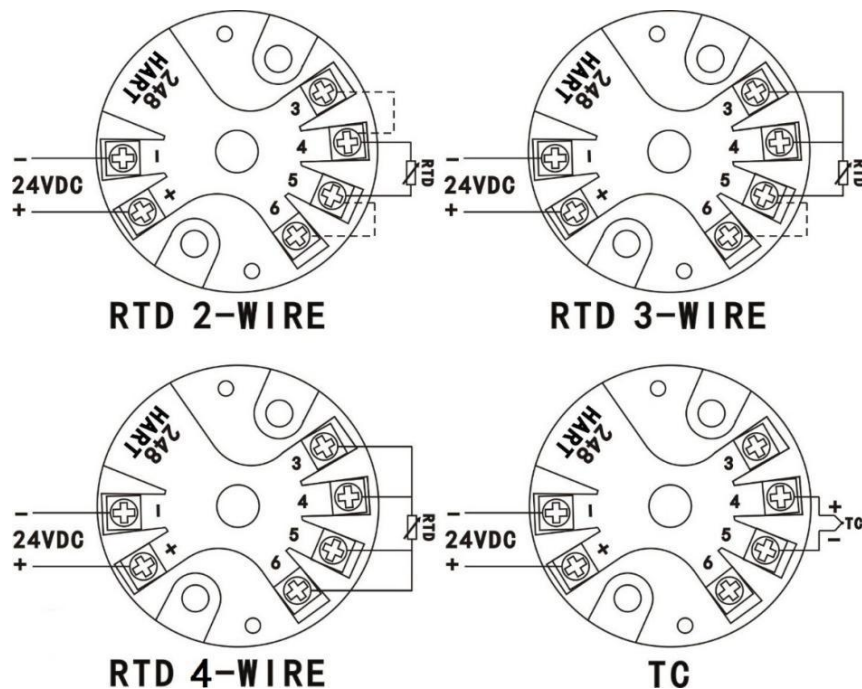
WMT180Y-TW (with thermowell):



Thermowell:

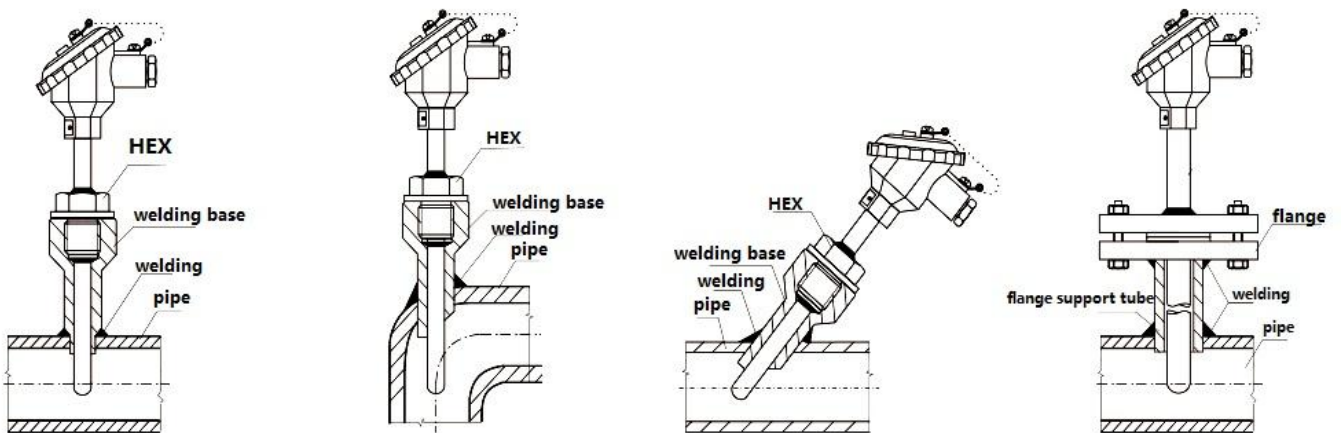


Wiring:

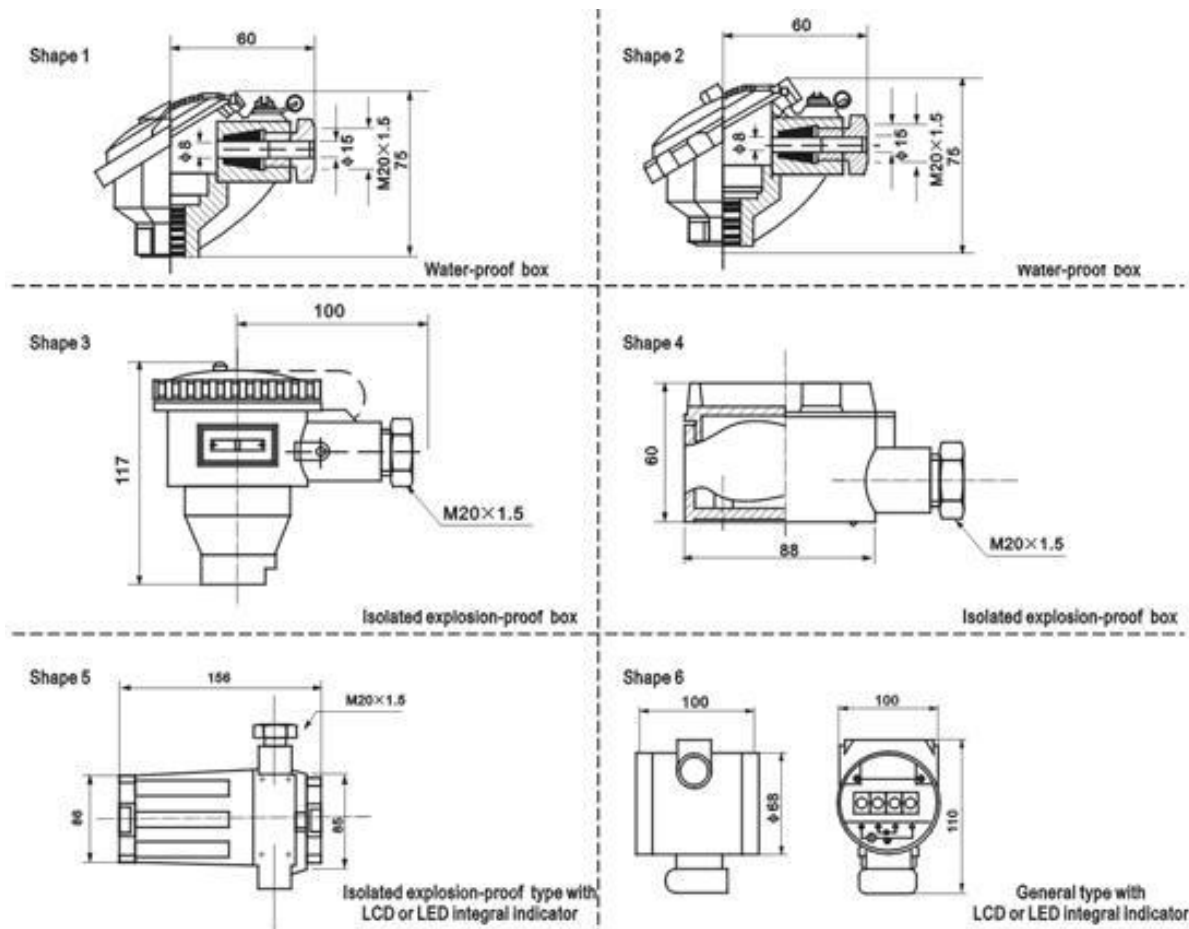


Note: 1. For input of the two-wire heating resistor, terminals 1 and 2 must be shorted;
 2, three wire heating resistance input: the resistance of the three wires should be the same as far as possible, each wireThe resistance cannot exceed 10Ω;
 3, thermocouple input, compensation wire should be directly connected to the instrument input wiring terminal, Do not connect wires of other materials in the middle, otherwise it will cause measuring errors.

Installation:



Case:



Connections:

