QTT-C Temperature Transmitting Controller



Features

- Small meter head, easy to install
- Digital instrument, easy to debug
- Measurement, transmitting and control in one product
- High precision, high stability, high reliability
- Linear compensation
- Flexible and convenient on-site configuration

Introduction

The IQTT-C temperature transmitting and controller is an intelli gent digital temperature measurement and control instrument that integrates temperature measurement, display control, and transmitting output. It can directly measure the surface temperature of various liquids, gaseous media and solids within the range of -200°C ~ 500°C , and output control signals. It uses a high-precision and high-reliability temperature sensor for measurement; the signal is processed by high-precision, low-temperature drift amplification; and converted into a microprocessor digital signal by a high-precision A/D converter; the two-way switch is controlled by the signal after arithmetic processing, then achieve the real-time measurement and control of the on-site temperature system, and linear correction. The digital temperature controller is flexible to use, simple to operate, easy to debug, safe and reliable. It is widely used in thermal pipeline, oil tank inspection, industrial automation control and inspection, etc.It can meet the temperature measurement and control requirements of various fields in petroleum, chemical industry, metallurgy, powerstation, light industry, and other fields.

Specifications

- Range: -200°C ...0°C ~ 500°C
- Power supply: 16V \sim 30V DC (typical value 24V DC) 10V \sim 30V DC (without current output)
- Accuracy: ±0.5%FS (FS ≥ 100°C), ±0.5°C (FS < 100°C)
- Output signal: 2-relay output

2-relay output +4mA \sim 20mA DC

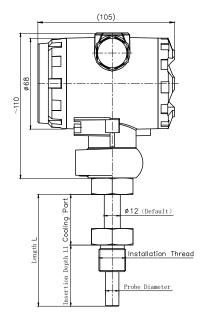
- Display: 4-digit LED display
- Insulation resistance: ≥ 50MΩ@500V DC
- Maximum power consumption: ≤ 3.5W
- Load capacity: Relay 250V/3A AC or 30V/3A DC
- Contact life:> 106 times
- Control rate: 40 times/S
- Long-term stability: ±0.1%FS/year
- Working temperature: -30°C ~ 70°C
- Storage temperature: -40°C ~ 120°C
- Degree of protection: IP65
- Temperature sensing element: PT100, PT1000 thermocouple

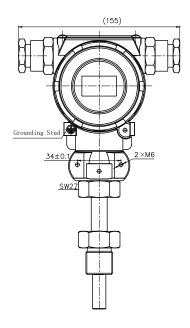
Structural Materials

- Housing material: Aluminum alloy
- Probe material: Stainless steel 304/316 or others

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Outline Structure (Unit: mm)





Optional Accessories

Welded sleeve: Code HT
 Threaded sleeve: Code LT
 Flange sleeve: Code FT
 Welding fitting: Code HT

Welding fitting: Code HJElectrical connector:

Code MD01 (suitable for wire diameter $\phi 4 \sim \phi 8$) Code MD02 (suitable for wire diameter $\phi 8 \sim \phi 12$)

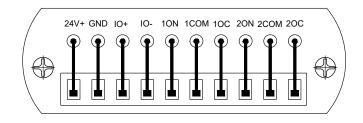
 Note: For specific specifications and selection, please refer to the temperature accessory.

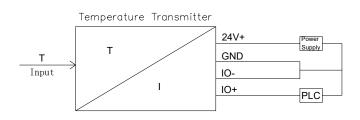
Button Definition

Button	Name	Function Definition
€F)	Setting	Confirm (click) / Move cursor (long press)
•	Up	Up / Increase the value
•	Down	Down / Decrease the value

Note: Please refer to the instruction manual for the setting logic

Electrical Connection





Item	Definition					
24V+	24V +					
GND	24V -					
IO+	4~20mA Output +					
IO-	4~20mA Output -					
1ON	Relay 1 normally open terminal					
1COM	Relay 1 GND terminal					
1CN	Relay 1 normally closed terminal					
2ON	Relay 2 normally open terminal					
2COM	Relay 2 GND terminal					
2CN	Relay 2 normally closed terminal					

Order Guide

IQTT-C	Temperature	e Transmittir	ng Controlle								
	Code										
	[X°C~Y°C]	Measuring Range X and Y represent the value of lower limit and upper limit									
		Code Output									
		2J 2-way relay									
		2JE	2-way relay + 4mA \sim 20mA DC								
		200	Code 6				Tube, unit: mm				
				φ6		1010011011	rabo, arma mini				
			8	φ8							
			12	φ12							
			16	φ16							
			612		Pino a6 Ou	tor Dinova1	2 (m12 Moldin	a Sloovo)			
				Inner Pipe φ6, Outer Pipeφ12 (φ12 Welding Sleeve) Inner Pipe φ8, Outer Pipeφ16 (φ16 Welding Sleeve)							
			816					g Sieeve)			
				Code			& Interface	1400 4 5	TI 11 (1.40		
				l 					Thread Length18mm		
				II					nread Length32mm		
				III					ead Length20mm		
				IV					N20、 DN32)		
				V			Clamp φ25.4、	•	DNIGO DNIGO \		
				VI					DN20、 DN32)		
				VII					Thread Length18mm		
				VIII					ead Length14mm		
					IX Other standard thread sizes, please note						
				Χ					hread Length14mm		
				XI	Fixed Thr	ead Installa	ation,Thread (G1/4,Thre	ead Length14mm		
					XXX	Protection Tube Insertion Depth					
						Calculated by the actual length, unit is mm (the thread length is included by default, if not, please note in detail; if a product with a base is required, the insertion depth is the extra length except the fitting)					
						Code	Material of P	Parts in Contact			
						1	Stainless Ste				
						2	Stainless Ste				
						3	PTFE Sleevi	PTFE Sleeving			
						4	Customized material, please note.		lease note.		
							Code	Cooling	Part Dimension, unit: mm		
							XXX(Required	0mm [-	50°C∼ 100°C]		
								100mm	[-200°C~ 150°C]		
							Fields)	150mm	[-200°C∼ 500°C]		
								Code	Accessories		
								Optional	None		
								HT	Welded Sleeving		
								LT	Thread Sleeving		
								FT	Flange Sleeving		
								HJ	Welded Fitting		
								MD1	Electrical Connection (Ca Diameterφ4~φ8)		
								MD2	Electrical Connection (Ca Diameterφ8~φ12)		
IQTT-C	[0 ~ 200]°C	- 2J	- 6	- 1	- 200 -	. 1	- 150	- HTMD	Whole Spec.		

1QTT-C Temperature Transmitting Controller

Notes

- 1. If there is no special note, except for the probe part and the housing, other materials are stainless steel 304;
- For the content not included in the order guide, please consult our company for customization.
 The code should be replaced by '*', and explained in the remarks or provided with drawings;
- 3. Code Example:

Example: IQTT-C [0 \sim 100°C]2J-6-I-200-1-150 Description: IQTT-C Temperature Transmitting Controller, measuring range 0 °C \sim 100 °C , 2-way relay output, outer diameter of probe6mm, fixed thread installation M20 \times 1.5, thread length 18mm, insertion depth of protection tube 150mm, including thread length.