MTM4881

Temperature Transmitting Controller



Features

- Real-time temperature display in unit: °C or °F
- 14-segment LED display
- Button programming, easy operatio
- Record the Max. in operation(button for clearing up)
- Support rail, cover and back mounting
- Hardware wrong operation protection n
- Max. 4 relays control independently, time-delay function
- Switchable analog output
- Intrinsically safe products meet GB3836.1 and GB3836.4 standards. and have explosion-proof certification, Exia mark is Ex ib IIA T6 Gb
- MODBUS communication

Introduction

MTM4881 Temperature Transmitting Controller is an intelligent meter integrating temperature measurement, display, transmitting and control. It adopts the internationally advanced ARM processing chip. By compensation and adjustment of the sensor, the product can achieve precise measurement and provide quick response and control of multiple relay. The meter supports peak record and action delay, providing 4 digit LED indicator, easy for reading. And the design of multiple buttons makes the operation easier and more convenient. Either current or voltage output signal is optional. It supports back mounting, rail mounting, cover mounting. Whole product protection is IP65.

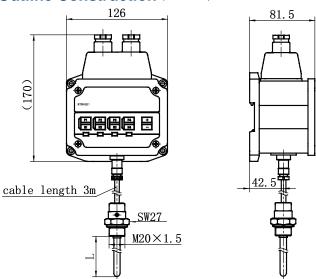
MTM4881 Temperature Transmitting Controller provides 4-relay output + 1 analog output, which is applied in liquid medium's temperature measurement, especially suitable for detection of oil temperature of hydraulic and lubrication transmission system.

Specification

Input	Power Supply	Non Intrinsically Safe: (220±44)V AC / 22V~32V DC	
		Intrinsically Safe: 22V~28V DC (Supplied by Safety Barrier)	
	Temperature Range	-30°C ~150°C / -22 °F ~302 °F	
	Accuracy	≤±1°C (FS≤100°C); ≤±2°C (FS>100°C)	
Output	Repeatability	≤±0.2%FS	
	Display	4 digit 0.56 inch 14-segment LED display	
	Display Refresh	200ms	
Analog Output	Current Version	4mA~20mA DC, Load resistance ≤560Ω	
	Voltage Version	0V~10V DC, Load resistance ≥10kΩ	
	Output Mode	4 relays, normally open or closed contact	
	Voltage Supply	≤277V AC;≤30V DC	
	Current Supply	≤3A	
Switch Output	Response	about 20s	
Switch Output	Switch Point Setting	1.5%FS~99%FS	
	Return Difference Setting	1%FS~10%FS	
	Relay Life	≥10,000,000 times/load (min.); ≥100,000/times/load (max.)	
	Switch Delay	0s~750s	
	Operation Temp.(controller)	-25°C ~65°C / -13 °F ~149 °F	
Environmental Conditions	Relative Humility	0%~85%	
	Storage Temp.(controller)	40°C ~70°C / -40 °F ~158 °F	
	Media Temp.	-20°C ~80°C / -50 °F ~176 °F	
	Electromagnetic compatibility	GB/T 17626.2/3/4-2006	
00.13.110.10	Shock	≤5g/10Hz500Hz(IEC 60068-2- 6-2007)	
	Impact	≤10g/11ms(IEC 60068-2-27-2008)	
	Protection	IP65	
	Sensor Plug	water-proof aviation plug	

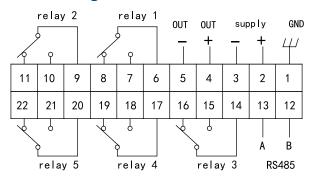
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Outline Construction (Unit: mm)



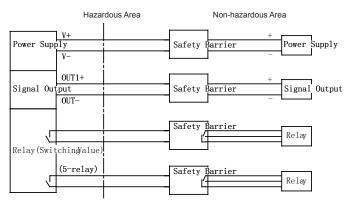
Outline Construction and Dimension

Terminal Diagram



External Terminal Diagram

Electrical connection



Safety Barrier Output Explosion Proof Parameters:

[Exib Gb]IIA

Supply terminal, Signal terminal:

Uo: 28V DC Io: 93mA DC Ui: 28V DC Ii: 93mADC

Li: 4.0mH Ci: 0.6uF Pi: 0.65W Po: 0.65W

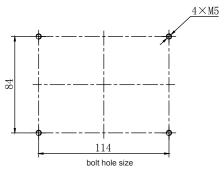
Relay Output Terminal:

Ui: 10.5V DC Ii: 14mA DC Uo: 10.5V DC Io: 14mA DC

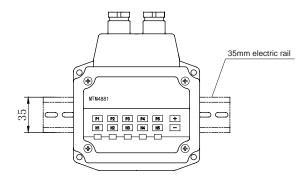
Li: 0mH Ci: 0 uF Pi: 37mW Po: 37mW

Installation

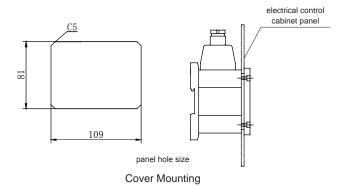
MTM4881 Temperature Transmitting Controller can be installed by rail mounting, cover mounting, back mounting.



Back Mounting



35mm Electric Rail Mounting





Order Guide

MTM4881		Temperature Transmitting Controller					
		Temperature Range					
	[X~Y]°C		-30°C ~150°C / -22 °F ~302 °F				
·		Code	Code Power Supply				
		AC	AC 220V AC (Non Intrinsically Safe Only)				
		DC	22V~32V DC (Non Intrinsically Safe) 22V~28V DC (Intrinsically Safe , supplied by Safety Barrier)				
				Code	Output	out	
				KA	4-relay	+analog (4mA~20mA)	
				KV	4-relay	relay +analog (0V~10V) relay +analog (4mA~20mA / 0V~10V double use)	
				KAV	4-relay		
					Code	Probe Thread	
					C1	M20×1.5 male(temperature casing pipe)	
					C3	G1/2 male(temperature casing pipe)	
					i	Intrinsically Safe ExibIIAT6 Gb	
						Code Probe Length(unit: mm)	
						L L: 20, 100,200	
MTM	14881	[0~100]°C	DC	KA	C3	L100 the whole spec.	

Notes

- 1. Probe thread can be customized for users. Please specify it in the contract.
- 2. If the user has special requirement, please feel free to contact us.

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