Integrated Temperature Transmitter

MTM



Feature

- · Exquisite and meticulous design
- · Provide diversified user customization
- · Compact size, easily installed
- Full stainless-steel material, corrosion resistant
- · High-cost performance
- · Diversified output forms

Introduction

MTM Integrated Temperature Transmitter can directly measure the temperature of various liquid, gas medium as well as solid surface from -200 °C to 500 °C. It uses special temperature module to make a linearity correction on temperature sensing element, outputting a standard analog signal and digital signal. This transmitter is easily used and with various choices of output, it can fulfill the temperature measurement needs of many different fields including petroleum, chemical industry, metallurgy, power station and light industry, etc.

Specifications

• Power Supply: 10V \sim 30V DC

 $15V \sim 30V$ DC(with indicator)

• Output: 4mA \sim 20mADC, RS485, HART

· Accuracy: ±1.0%FS

Insulation Resistance: ≥20MΩ@500V DC

Circuit Operation Temperature: -10°C ~ 80°C

Medium Temperature: -200°C ~ 500°C

Indicator Temperature: -10°C ~ 60°C

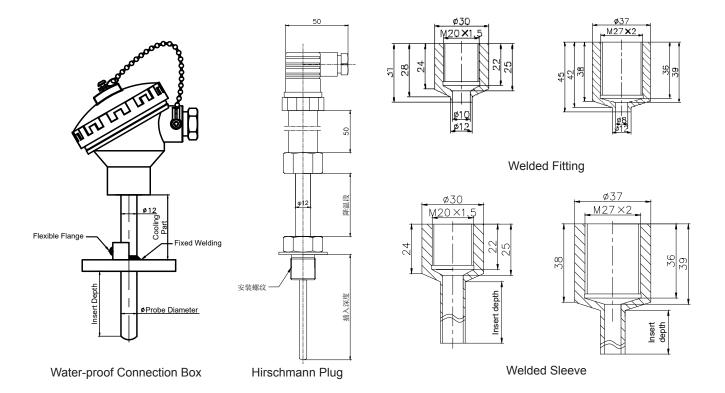
· Protection: IP65

Construction Material

- Housing: Aluminum Alloy (water-proof connection box)
- · Wetted Part: Stainless Steel 304,316L or others
- · Sensing Element: PT100,PT1000 or others

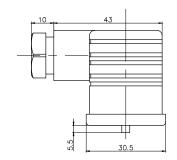
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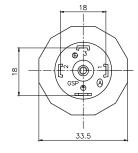
Outline Construction Unit: mm



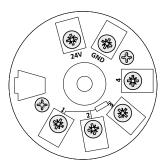
Electrical Connection

PIN	Electrical Definition
1	+V
2	+OUT
3	Null





Hirschmann Plug



Water-proof Connection Box

Order Guide

Code	•	Temperature Sensing Element											
Z		Thermal Resistance											
	Code	Graduation											
	Р	PT100	_		_								
		Code		perature Range Lower limit value and upper limit value, Unit: °C .(measured									
		$[X \sim Y^{\circ}C]$	Rang	e: -200	°C ~500°	e and u C)	pper iiri	iii vaiue	, Unit. C	.(measured			
			Code E EH R8 ER8	Outp	ut Signal								
				4mA	\sim 20mA	DC							
				4mA	\sim 20mA	DC +	HART						
					35(Only l								
								-	schmann)			
				Code		ection I	ube Dia	ameter, I	Jnit: mm				
				6	φ6								
				8 12	φ8 φ12								
				16	φ16								
				612		nal tube	eφ8. Ex	ternal tu	beφ12(ຫ _ິ	12 Welded :	sleeve)		
				816						16 Welded	· · · · · · · · · · · · · · · · · · ·		
					Code		-	& Conn					
					- 1	Fixe	d threa	d install	ation, M2	0×1.5 male	, Thread Length 18mm		
					П	Fixe	d threa	d install	ation, M2	7×2 male, T	Thread Length 32mm		
					III	Fixe	d threa	d install	ation, G1/	/2 male, Thi	read Length 20mm		
					IV	Fixe	d flang	e installa	ation (DN	10, DN15, [DN20, DN32)		
					V					25.4, φ50.4)			
					VI						DN20, DN32)		
					VII	Fixed thread installation, M16×1.5 male, Thread Length 18mm Fixed thread installation, G3/8 male, Thread Length 14mm							
					VIII				read Length 14mm				
					X X		Other standard Thread, please note Fixed thread installation, NPT1/4 male, Thread Length 14mm						
					XI						read Length 14mm		
					XI	Code				ction Tube (
						XXX	Per not	actual le	ength, uni	it mm (Defa	ult length includes thread length, it g is needed, the insert depth shou		
						\Box	Code	Mate	ial of We	tted Part			
							1	Stain	ess Steel	304(Defau	lt)		
							2		ess Steel	316L			
							3		Sleeve				
							4		s, please				
								Code H	Hirsch	ection Box			
								F			ection box (without indicator)		
									Code	Display			
									A	LCD			
									В	None			
									С	LED			
										Code	Length of Cooling Part (Unit: mr		
										XXX	100mm[-200°C~ 150°C]		
											150mm[-200°C∼ 500°C]		

MICROSENSOR

MTM Integrated Temperature Transmitter

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Order Notes:

- If there is no special requirement, the material is stainless-steel 304 except probe and explosion proof housing.
- If customization is needed, please contact us for details. The customized code should be replaced by "*", please also remark with details or provide drawings.
- If other thermal resistance like PT1000 or K type thermal couple is needed, please note clearly on the order.

4. Code example:

Code: MTMZP[0~200°C]E-6-I-150-H-1-B-150 Details: MTM Integrated Temperature Transmitter, Thermal Resistance PT1000, measuring range 0~200°C, 4~20mA DC output, Probe external diameter 6mm, Fixed thread installation M20×1.5, thread length 18mm, insert depth of protection tube 150mm including thread length, plug connection, SS304 probe, Without display, Length of cooling part 150mm.

