HTS100 Series High Performance Temperature Sensors

HTS201
(Smart Integrated Type)

Characters:

☆ Simple installation and multifarious-temp scope
☆ Gas and liquid medium available
☆ Medium compatible 316L stainless steel
☆Excellent long time stability and lower consumption
☆Smaller dimension and Compact structure
☆ Response fast and high accuracy
☆ Various linear analog signal output optional
☆ Highly-efficient RFI & EMI resistance
☆Automotive compensation digital circuits
☆And so on

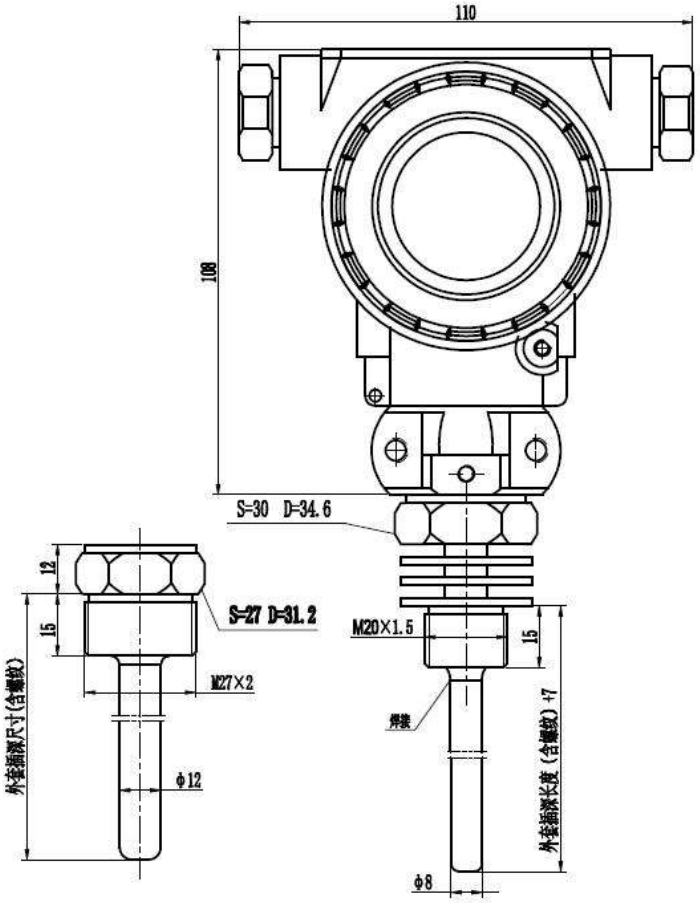
Applications:

★ pipeline and ventilation system
★ Hydraulic and pneumatic system
★ Petrochemical industry
★ Hydraulic and pneumatic systems
★ Cooling system
★ Heating system
★ Air Conditioning System (HAVC)
★ Automatic system temperature measurement and control
★ Agricultural Greenhouses application
★ And so on

Ⅰ. Specifications:

Model: / Parameter:	HTS201
Measurement Range (Degree C/ ℃):	-50～0; -50～50; 0～80; 0～100; 0～120; 0～150; 0～200; 0～250; 0～300 optional
Installation Type:	Insert type
Probe length:	50 mm or customized
Probe Dimension:	Φ8
Sensor Type:	PT100; Pt1000
Signal Output:	4-20 mA + HART or 4-20 mA +RS485 optional
Signal wires type:	2 to 4 wires
Power supply:	24Vdc
Linear:	±0.5%F.S. or ±0.25%F.S. Optional
Working pressure:	40Bar (standard); 300 Bar (customized)
Long time stability:	0.1%F.S.
Response time:	T=50 2.3S; T=90 5.4S
Electronic proof:	Reverse polarity protection; Overload voltage protection (standard); surge protection (customized)
Environment temp:	-40～85 Degree C
Storage temp:	-40～125 Degree C
Materials of housing:	316L Stainless Steel
Materials of process:	316L Stainless Steel
Water proof grade:	IP67
Explosion Proof:	Yes
Display Units:	LED Indicator Local Display Temp and Panel with 3 keys for Zero and Span setting

Ⅱ. Dimension and Drawing:



HTS201 Dimension

Ⅲ. Model Code Selection Table:

HTS	High Performance Temperature Transmitters						
	201	Smart Temperature Transmitters					
		Range Code	Temp range	Ref.	Range code	Temp range	Ref.
		01	-50～0	101/102/104	06	0～200	101/102/104
		02	-50～+50	101/102/104	07	0～250	101/102/104
		03	0～80	101/102/104	08	0～300	103/104
		04	0～100	101/102/104	09	0～400	103/104
		05	0～150	101/102/104	10	By customized	103/104
			Code	Accuracy			
			1	0.25%F.S. (standard type)			

			2	0.15%F.S. (customized type)							
				Code	Process connection						
				8	M20x1.5 male			9	G1/2'' male		
				6	G1/4'' male			3	1/4''NPT male		
				10	1/2''NPT male			X	By customized		
					Code	Signal Output & Power Supply					
					E14	4-20 mA +HART					
					E19	4-20 mA + RS485 MODBUS RTU					
					X	By Customized					
						Code	Electronic Connection				
						M20	M20*1.5 Female				
						X	By Customized				
							Code	Probe Length (mm)			
							050	50 mm			
							XXX	By customized			
								Code	Probe Diameter (mm)		
								6	6 mm		
								8	8 mm		
									Code	Temp Units	
									C	Degree C/ ℃	
									F	℉	
										Code	Cable Length (meter)
										003	3 meters
										XXX	By Customized
HTS	**201**	**04**	**1**	**2**	**E14**	**M20**	**050**	**6**	**C**	**003**	**Others Remarks**

Example Model Code: HTS102-04-1-2-E5-D-050-6-C-003(3 Meters cable)