HMP6011 Temperature and Humidity Sensor

Features

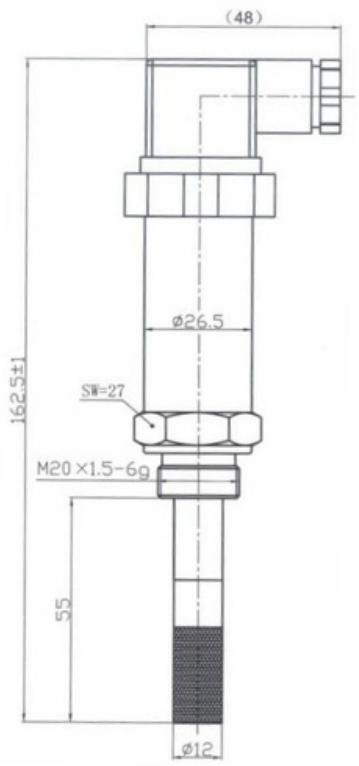
- All stainless steel structure
- Reliable performance, safe and easy to use
  Diverse output signal types
- Reverse polarity protection and instantaneous overcurrent and overvoltage protection comply with EMI protection requirements
- This security explosive product meets the design requirements of GB3836.4 standard
- Explosion proof products that meet the design requirements of the national GB3836.2 standard

Introduction The HMP6011 temperature and humidity sensor uses a temperature and humidity integrated probe as the measuring element, and adopts a standard 4-20mA signal output. This product is widely used in situations where environmental temperature and humidity need to be measured.

Specifications

Pressure parameter	
Temperaturerange	-40~120 ℃
Humidity range	0-100%RH
Electrical parameters	
Output type	Current type
Power supply	24VDC
Output signal	4mA～20mA DC (2 wire syetem)
Load resistor	≤（U-9）/0.02Ω (2wiresyetem)
Insulation resistance	100MΩ，100VDC
Structural parameters	
Housing	Stainless steel
Sealing ring	Fluororubber
Protection level	IP65
Environmental conditions	
Media applicability	Various gases that are non corrosive to stainless steel materials
Operating Temperature	-40 ℃～ 125 ℃
Storage temperature	-55 ℃～ 125 ℃
Performance metrics	
Temperature accuracy	± 1.0%FS
Humidity accuracy	± 5.0%RH
Long-term stability	± 0.3%FS/year (max)

Outline and Dimensions



Electrical Connection

Pin	Definition
1	Negative power supply
2	Temperature output
3	Positive power supply
⏚	Humidity output

Order Guide

Code	HMP6011	[0-X] ℃	[0-X] %RH	E	C1	B1
Definition	Model	Temperature	Humidity	Output	Connector	Electrical connection
Option	HMP6011	-40~120℃	0-100%RH	4～20mADC	M20*1.5 male	Hirschmann

Order Tips:

1: Please pay attention to fully understanding the working status of the medium and pressure range of the pressure detection point as much as possible. Avoid unnecessary losses caused by unreasonable use of the product.

2: Although the product is designed with various protective measures, for extreme applications such as strong lightning strikes on site, reliable grounding of the power supply should be ensured, and a large lightning protection device should be installed to minimize the

probability of product failure.

3: If there are special requirements for electrical interfaces, on-site installation methods, etc., please communicate with the sales engineer in advance for selection.

4: For products with special applications, our company can provide special design and manufacturing. Customers are welcome to consult and negotiate