

PKT36 explosion-proof temperature transmitter

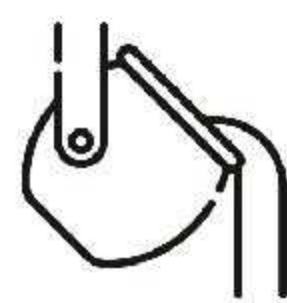
Certification



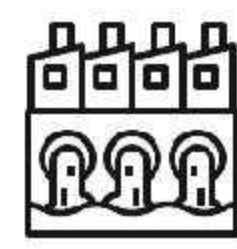
Application Scenarios



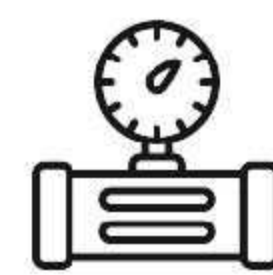
Petroleum
Petrochemical



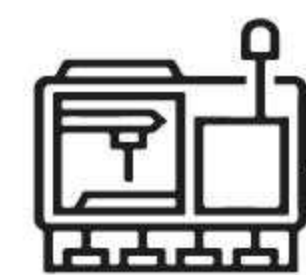
Ferrous
metallurgy



Water treatment
system



Measurement
and control



Machinery
manufacturing

Product Features

Range	Accuracy	Medium temp.	Output	Probe material
-50...1200℃	0.1%FS、 0.15%FS、 0.2%FS、 0.5%FS	-50...1200℃	4...20mA、0...5V、 0...10V、Modbus、 HART	Stainless steel 304, stainless steel 316, Hastelloy, titanium alloy

Product Description

This product is designed as an explosion-proof temperature transmitter, with a wide temperature range of -50... 1200 °C, and a comprehensive conversion accuracy of 0.1% FS, 0.15% FS, and 0.2%FS, 0.5% FS, and annual drift is very small, at 0.2% FS/year.

Extremely stable performance and excellent long-term stability, widely used in petrochemical industry, energy, food, pharmaceuticals, and various measurement and control fields.

The temperature transmitter uses thermocouples and thermistors as temperature measuring elements. The output signal from the temperature measuring element is sent to the transmitter module, which is then stabilized, filtered, and operated after processing circuits such as large, nonlinear correction, V/I conversion, constant current, and reverse protection, convert them into 4-20mA current signals that are linearly related to temperature

0-5V/0-10V voltage signal, RS485 (Modbus) digital signal output, can be directly connected to upper computer, PLC, various intelligent instruments and control monitoring testing platform communicates directly.

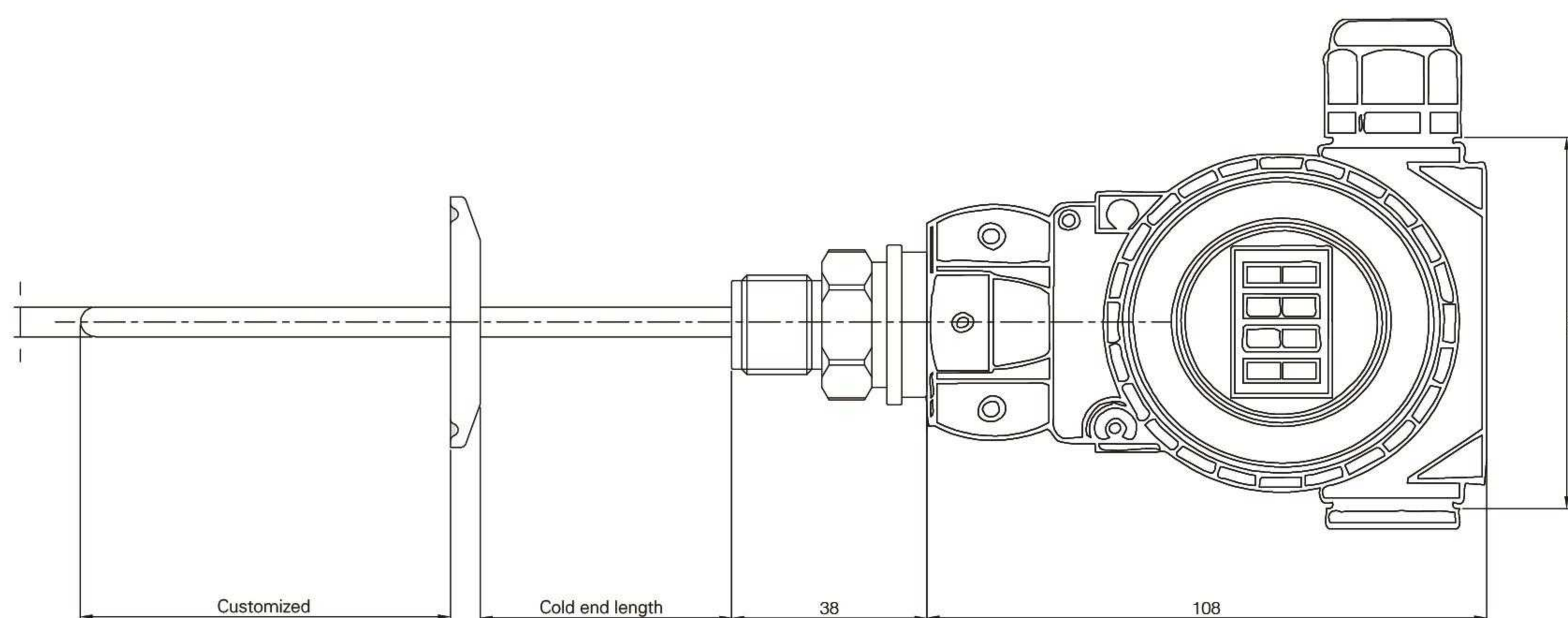
The probe material types are diverse, including stainless steel 304 and stainless steel 316; Materials available for special working conditions: Hastelloy, titanium alloy, etc. It can be determined based on the on-site working conditions

Choose the most suitable material.

Technical Parameter

Application scenarios	Temperature measurement
Measurement range	-50...1200°C
Comprehensive accuracy	0.1%FS、0.15%FS、0.2%FS、0.5%FS
Response time	<3s (rising to 90% FS)
Medium temperature	-50.....1200°C
Operating temperature	-40.....85°C
Supply Voltage	DC24V (10...30 V DC)
Output signal	4...20mA 、 0...5V、 0...10V、 Modbus、 HART
Sealing level	IP65
Connection material	Stainless steel 304, stainless steel 316
Probe material	SS 304, SS 316, Hastelloy, titanium alloy
Stability performance	0.2% FS/year
Process connection	Thread, flange, clamp
Electrical interface	Shielded wire, aviation connector, Hirschmann, threaded M20, NPT1/2, G1/2

Specifications and Dimensions



Certification

- A Common
- B Ex d IIC T4 Gb

Process connection

- AA ASME Flange 1" 300lbs RF
- AB ASME Flange 1-1/2" 150lbs RF
- AC ASME Flange 1-1/2" 300lbs RF
- AD ASME Flange 2" 150lbs RF
- AE ASME Flange 2" 300lbs RF
- AF ASME Flange 3" 150lbs RF
- AG ASME Flange 3" 300lbs RF
- AH ASME Flange 4" 150lbs RF
- AI ASME Flange 4" 300lbs RF
- HK HG/T20592 Flange DN25 PN10/40 RF
- HA HG/T20592 Flange DN50 PN10/40 RF
- HB HG/T20592 Flange DN63 PN10/40 RF
- HC HG/T20592 Flange DN80 PN10/40 RF
- HD HG/T20615 Flange NPS 2" Cl.150 RF
- HE HG/T20615 Flange NPS 3" Cl.150 RF
- HF HG/T20615 Flange NPS 2" Cl.300 RF
- HG HG/T20615 Flange NPS 3" Cl.300 RF
- TA Sanitary ISO2852 1-1/2"
- GM M20x1.5
- GN MNPT1/2, Male thread
- GT MNPT1/4, Male thread
- GS M27x2
- GQ MNPT3/4, Male thread
- GO G1/4
- GP G1/2
- GR G1
- RA R1/2
- YY Special

Shell+communication interface

- M Aluminum shell+cable plug M20
- L Aluminum shell+cable plug G1/2
- N Aluminum shell+cable plug NPT1/2
- K Aluminum shell+cable plug M12

Probe length

- A 100mm
- B 200mm
- C 500mm
- D 1000mm
- Customized

Output

- 1 4-20mA
- 2 4-20mA + Display
- 3 0-10V
- 4 0-10V + Display
- 5 Modbus
- 6 Modbus + Display
- 7 4-20mA Hart
- 8 4-20mA Hart + Display
- 9 Customized

Probe diameter

- A 6mm
- B 8mm
- C 10mm
- D 12mm
- E 16mm

Temperature range

- A 0...100°C
- B 0...500°C
- C 0...1200°C
- D -50...100°C
- E -50...1200°C
- X*Y X...Y

Cooling pipe

- A Common
- L With cooling pipe
- S Split type
- Cable length

Probe material

- L-304
- S-316
- N-Inconel
- F-PFA coating
- H Ceramic
- TA-Titanium
- Y-Special

Accuracy

- C 0.1%
- D 0.15%
- E 0.2%
- F 0.5%

Accessory

- H1 Sheath (inquiry)

10 20 30 40 50 60 70 80 90 100 110

PKT36 Explosion proof temperature transmitter

Selection rules:

Requirements: Explosion proof housing, cable plug M20, 4-20mA Hart+display, 0... 200 °C, 0.2% FS, G1/4, 100mm, and diameter 6mm

Model selection: PKT36-AM8-0 * 200A-AAGOLE