

PKT30-PF PFA Temperature Sensor

Certification



Application Scenario



Photovoltaic
Semiconductor



Cleaning / wet
process equipment



Corrosive liquid
environment



Liquid dispensing
system



Product Features

Range	Accuracy	Output Signal	Probe material
-50...150°C	0.5%FS	4...20mA 、 0...5V 、 0...10V	高纯PFA

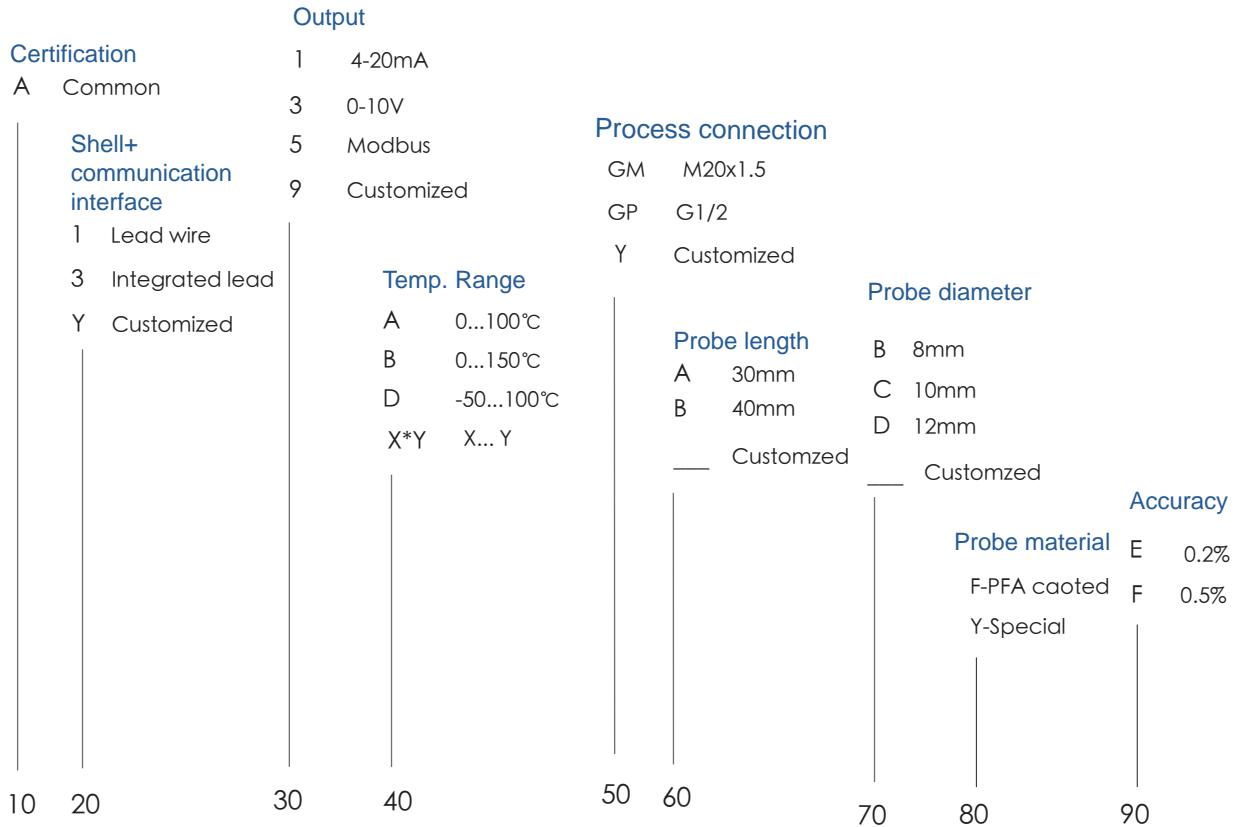
Product Description

As an integrated PFA temperature sensor, it achieves a comprehensive conversion accuracy of 0.2%FS and 0.5%FS, with very low annual drift of 0.2%FS per year. The performance is highly stable, offering excellent long-term stability.

The temperature transmitter uses thermocouples and thermistors as temperature measurement elements. The signal output from the temperature measurement elements is sent to the transmitter module, where it undergoes voltage regulation, filtering, amplification, non-linear correction, V/I conversion, constant current, and reverse protection circuits. This processing converts the signal into a 4-20mA current signal, 0-5V/0-10V voltage signal, or RS485 (Modbus) digital signal, which can directly communicate with the host computer, PLC, various intelligent instruments, and control monitoring platforms.

The probe material is made of PFA, which is well compatible with special media such as acids, alkalis, and ultra-pure water, ensuring no risk of contamination.

Technical Parameters	
Application scenarios	Temperature measurement
Measurement range	-50...150°C
Comprehensive accuracy	0.15%FS、0.2%FS、0.5%FS
Response time	<3s (rising to 90% FS)
Medium temperature	-50.....150°C
Ambient temperature	-40.....85°C
Supply voltage	DC24V (10...30 V DC)
Output signal	4...20mA、0...5V、0...10V
Sealing level	IP65
Connection material	PFA
Probe material	PFA
Stability performance	0.2% FS/Year
Process connection	M20、G1/2 etc optional
Electrical interface	Lead wire



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