

The **SS-PT100-EX wide temperature probe** is suitable for use in low temperature refrigerators, incubators, liquid nitrogen tanks, and blood/sample banks.

RTD temperature sensors using platinum resistors provide excellent measurement stability for use with the CY08 series of data loggers.

Product features

- High precision: temperature range -199 ~ 150 °C, error less than ± 0.4 °C (-40 ~ 70 °C).
- Digital RS485 interface probe for easy individual metering.
- Small size and low power consumption.
- Meet IP68 protection.
- The platinum resistor can be disassembled and replaced to reduce the maintenance cost.

Temperature performance

Measuring range	-199~150°C
Measurement accuracy	
In the range -200 to -90°C	$\pm 2^{\circ}\text{C}$
In the range of - 90 to -30°C	$\pm 0.6^{\circ}\text{C}$
- 30 to 0°C	$\pm 0.4^{\circ}\text{C}$
0 ~ 50°C	$\pm 0.2^{\circ}\text{C}$
50~90°C	$\pm 0.6^{\circ}\text{C}$
90~150°C	$\pm 2^{\circ}\text{C}$
Sensor type	Pt100 RTD Class A

Environmental requirements

Temperature tolerance range of probe	-199~150°C
Converter temperature tolerance range	-40~80°C
Waterproof performance	IP68

Input and output

Rated operating voltage	4.5V~27V
Maximum current	2mA
Start time	0.5S
Digital output	RS-485 2-wire half-duplex with Modbus RTU protocol
Output	Temperature



Mechanical parameters

Interface type	4-pin male M8 (IEC 60947-5-2)
Interface material	Galvanized copper
Converter	Aviation aluminum alloy
Probe cable	FEP Teflon
Probe	316 stainless steel

