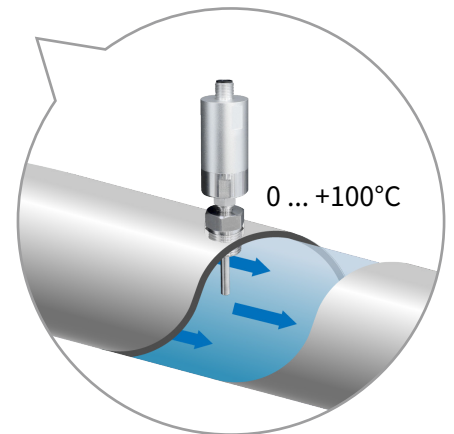




TP05 Temperature Transmitter

Temperature-TP05

www.eyc-tech.com



| Features |

- Rugged aluminum alloy housing for harsh environments
- Temperature range configurable via RS-485
- M12 waterproof quick connector; compatible with SD05 display
- RS-485 configuration software enables setting of measurement range, analog output, and device address
- Built-in data logging supports up to 65,535 records with graphical analysis
- Measures temperature of various media, including air and liquid

| Applications |

Semiconductor / Electronics / Chemical / Pharmaceutical / Steel industry / Biotechnology / Industrial process monitoring / Air conditioning / Cleanroom / Laboratory / Weather station / Hospital / Buildings / Dryers / Factories / Storage rooms / Environmental ventilation control / Environmental test chambers / Greenhouses

| Specifications |

Input

Sensor type	Pt 100 Class A
Measuring range	-40 ... +200°C

Output

Output	4 ... 20 mA / RS-485
Load resistance	Current output : $\leq 500 \Omega$
Response time (at +25°C)	t90 < 3 sec
Filter response	0 ... 100 adjustable
Sampling time	1 cycle/sec

Accuracy (at +25 °C)

Accuracy	$\pm 0.1^\circ\text{C}$
Temperature drift	$< \pm 0.02\% \text{ F.S. } / ^\circ\text{C}$

Communication

Comm. Interface & Protocol	RS-485 Modbus RTU
RS-485 Baud Rate	9600、19200、38400、57600、115200 bps

Electrical

Power supply	DC 24 V $\pm 10\%$
Current consumption	24 V : 40 mA
Electrical connection	M12 5P connector

Environmental

Medium	Air / liquid
Operating Temp.	-20 ... +60°C
Operating Humid.	0 ... 90% (Non-condensing)
Storage temperature	-25 ... +60°C
Probe pressure resistance	16 bar

Installation

Installation	1/4"PT or 1/2"PT movable thread
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Certification

Certification	CE
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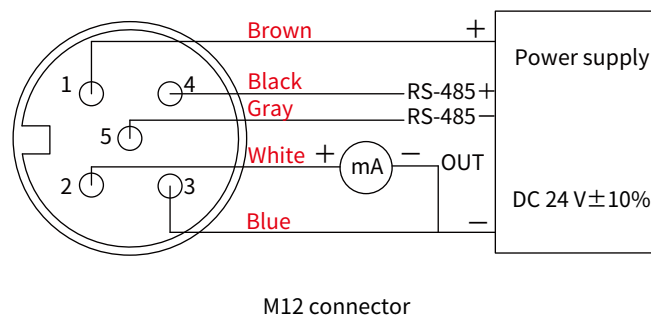
Protection

IP rating	IP65 (Housing)
Electrical protection	■ Reverse polarity ■ Over-voltage

Material

Probe	Stainless steel
Housing	Aluminum alloy
Weight	About 180g

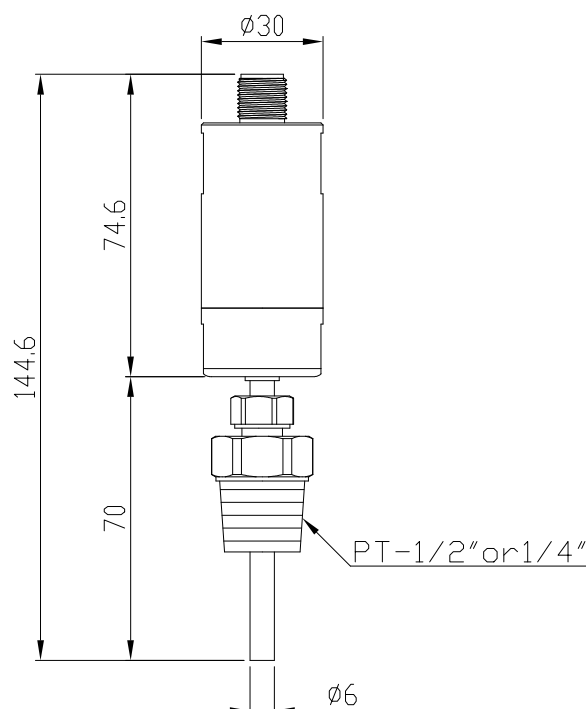
| Diagram |



*Please make sure the product and the device which connect with RS-485 are on common ground, avoid damaged product.

Dimension

Unit : mm



Ordering Guide

Product ordering number	Product Specifications
TP05-A1	I/P : Pt100Ω Class A, O/P : 0... 100°C to 4 ... 20 mA + RS-485, w/o outside thread, Probe : 70 mm (Option : connection with movable thread)

*Recommended Optional Accessories

8100140016 : 1/4" PT Movable Male Thread, SUS304

8100140017 : 1/2" PT Movable Male Thread, SUS304

T-6.4D(F)x4FPF(M)x304 : 1/2G" Movable Male Thread, SUS304

Additional Option Test Report

For more detailed information please contact us.

ILAC / TAF

YUDEN-TECH CO.,LTD. Calibration Laboratory - (ILAC / TAF) Test report.

(TAF accreditation : 3032, complying with ISO / IEC 17025) TAF has mutual recognition arrangement with ILAC MRA

Project	Measurand level or range
Resistance thermometer	-40°C ... +300°C
Thermocouple thermometer	-20°C ... +300°C

ISO 9001

Project	Measurand level or range
RTD / Thermocouple	Resistance thermometer : -40°C ... +300°C
	Thermocouple thermometer : -20°C ... +300°C