Temperature Measurement / Temperature Transmitter

Empowering Precision Measurement

Selection Guide

Name	Model	Photo	Characteristics
Smart Temperature Transmitter Module	WESIVO-TT101		Power Supply: 12–35 VDC Output: 4–20 mA, /0-5V /0-10V Accuracy: RTD ±0.1% / TC ±0.2% Input: RTD / Thermocouple Operating Temp.: -30 to +80°C USB Configuration: PC software included for parameter setting and calibration.
Isolated Temperature Transmitter Module	WESIVO-TT102		Power Supply: 12–35 VDC Output: 4–20 mA, 2-wire Input: RTD / Thermocouple Accuracy: RTD ±0.1% / TC ±0.2% Isolation: AC 1.5 kV / 1 min USB Configuration: PC software included Operating Temp.: -30 to +80°C
RS485 Temperature Transmitter Module	WESIVO-TT485		**Power:** 12–35 VDC **Output:** RS485 / Modbus **Input:** RTD / TC **Accuracy:** ±0.1% / ±0.2% **Temp.:** -30 to +80°C **Housing:** PA66
Smart HART Temperature Transmitter Module	WESIVO-TT248H		**Power:** 12–35 VDC **Output:** 4–20 mA + HART **Input:** RTD / Thermocouple **Accuracy:** RTD ±0.1% / TC ±0.2% **Communication:** HART Protocol **Operating Temp.:** -30 to +80°C **Housing:** PA66

DIN Rail HART Temperature Transmitter	WESIVO-TT101D		**Power:** 12–35 VDC **Output:** 4–20 mA + HART **Input:** RTD / Thermocouple **Accuracy:** RTD ±0.1% / TC ±0.2% **Operating Temp.:** -30 to +80°C **Housing:** PA66 **Mounting:** DIN Rail
Industrial Temperature Sensor	WESIVO-TT20R		Reliable temperature measurement for industrial applications. Available with **RTD or thermocouple sensing elements**, with optional **process connections, probe lengths, transmitter modules, thermowells, and output signals**.
Industrial Temperature Sensor	WESIVO-TT30		**Sensor:** Pt100 / Pt1000 **Accuracy:** Class A **Response Time:** ≤30 ms **Probe:** Ø8 mm **Protection:** IP65 **Explosion-Proof:** Ex ia IIC T6 **Connection:** Hirschmann / Customizable
Sanitary Temperature Transmitter	WESIVO-TT30E		Pt100/Pt1000 sensor, range up to -200°C to +600°C, 4–20 mA / 0–10 V / RS485 output, IP65/IP66 protection, sanitary clamp connection, probe length customizable.
All-in-One Temperature Transmitter	WESIVO-TT40		this temperature transmitter supports a wide range of RTD and thermocouple sensors, including Pt100, Pt1000, K, J, E, N, S and B types. Multiple transmitter modules and output options are available, such as 4–20 mA, HART and RS485. Probe length, process connection, material andother specifications can be customized according to application requirements.

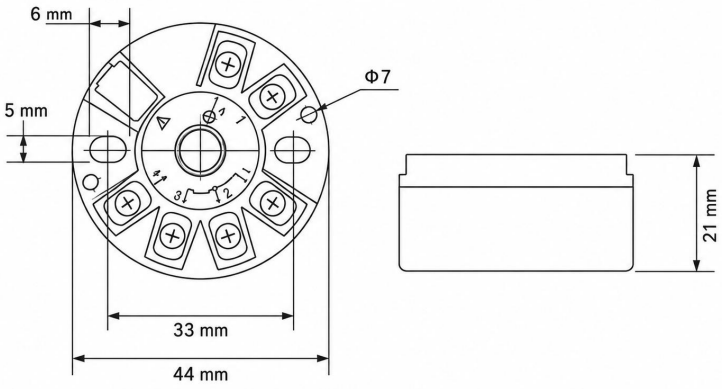
Explosion-Proof Temperature Transmitter	WESIVO-TT50		Sensor Input: RTD / Thermocouple Display: Optional LCD Range: -200 to +400°C, configurable Output: 4–20 mA / HART / RS485 / Voltage Output Power Supply: 12–24 VDC Accuracy: ±0.5% FS / ±0.2% FS Probe Diameter: Ø16 mm, customizable

Professional Temperature Transmitter Manufacturer with 15+ Years of Customization ExperienceWe offer a wide range of temperature measurement solutions for different industrial applications, including temperature transmitter modules, integrated temperature transmitters, RTD sensors, and thermocouple transmitters. The products shown above are our standard models. Customized temperature transmitters can also be provided according to your requirements, including temperature range, sensor type, output signal, process connection, electrical connection, probe length, material, accuracy, communication protocol, and other specifications.

Other Specifications/Module

Parameter	Specification
Power Supply	12–35 VDC
Measurement Accuracy	RTD ±0.1%; TC ±0.2%
Input	Pt100, Pt1000, Cu50, Cu100, TC_K, TC_E, TC_B, TC_S, TC_J, TC_N, etc.
Output	4–20 mA / 0–5 V / 0–10 V / RS485 / 4–20 mA + HART
Mounting	Head-Mounted / DIN Rail Mounted
Material	PA66

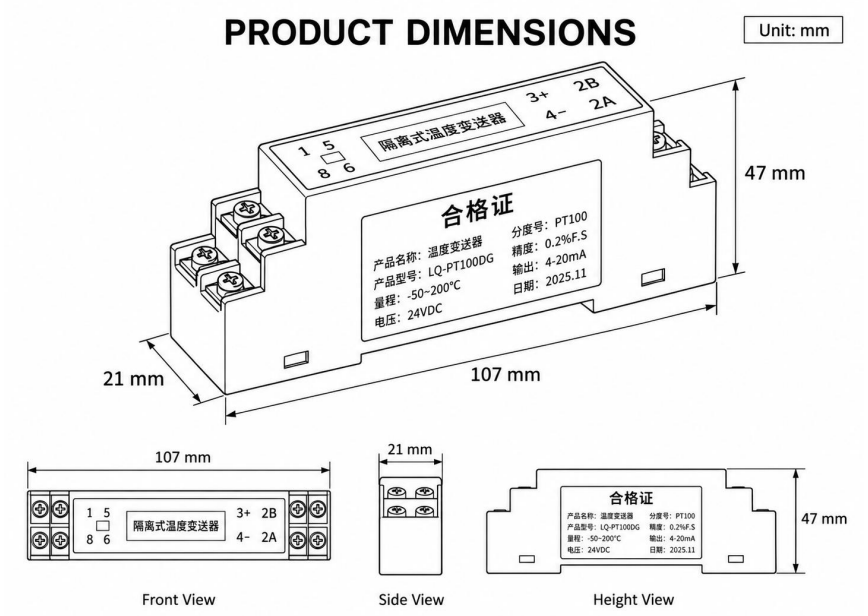
PRODUCT DIMENSIONS



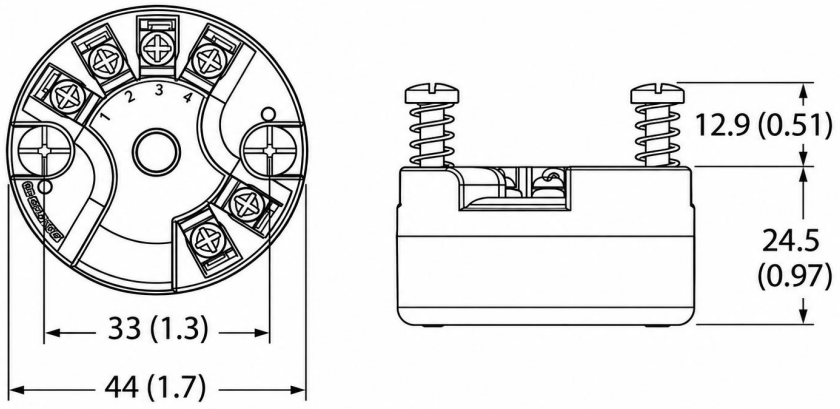
TT101/102/TT485

PRODUCT DIMENSIONS

Unit: mm

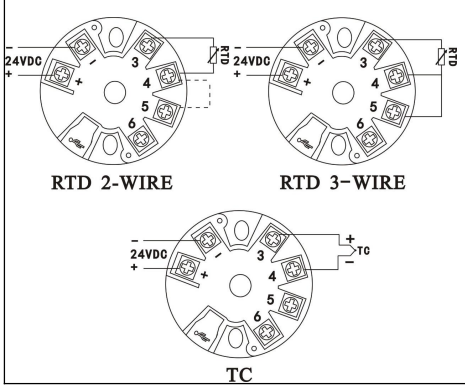


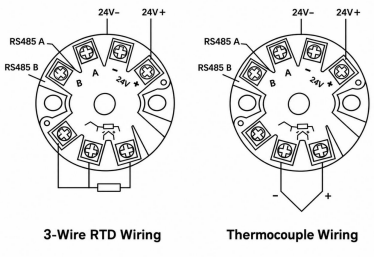
WESIVO-TT101D

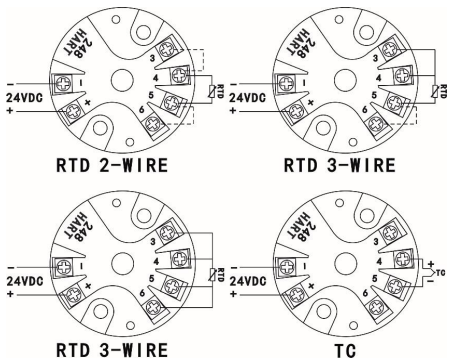


WESIVO-TT248H

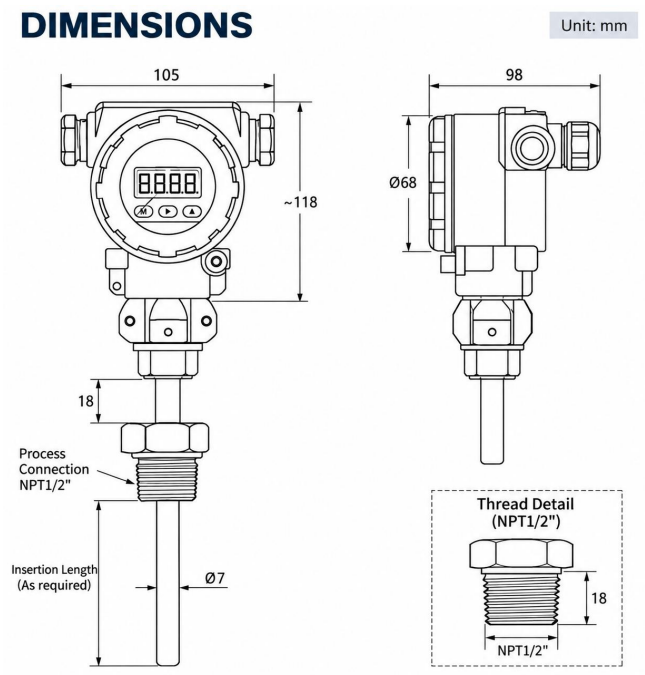
Connection

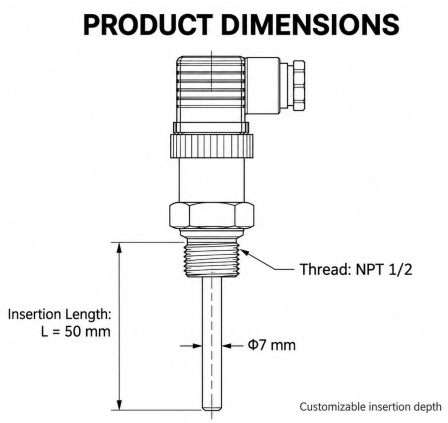






Temperature Transmitter with Sensor Diagram





Flexible customization is available for temperature sensor parameters, display heads, transmitter modules, and output signals. Display heads are available in ABS, aluminum alloy, and stainless steel. Different transmitter modules, communication methods, and output options can be selected according to application requirements. Thermowells and other accessories are also available as optional configurations. In addition, we can supply temperature transmitters from well-known brands such as WIKA, Yokogawa, Endress+Hauser (E+H), Rosemount, and Honeywell.

RTD Range Table

Type	Reference Resistance at 0° C	Common Range ° C	Note	Type
Pt100	100 Ω	-200 to +850	Platinum RTD	Pt100
Pt1000	1000 Ω	-200 to +850	Platinum RTD	Pt1000
Cu50	50 Ω	-50 to +150	Copper RTD	Cu50
Cu100	100 Ω	-50 to +150	Copper RTD	Cu100

Thermocouple Range Table

Type	Common Range ° C	Note
TC_K	-200 to +1372	General purpose
TC_E	-200 to +1000	High sensitivity
TC_B	+600 to +1820	High temperature
TC_S	0 to +1768	Noble metal type
TC_J	-210 to +1200	Iron-constantan
TC_N	-200 to +1300	High stability

Note: The above ranges are common reference ranges. Actual usable temperature range may vary depending on sensor construction, sheath material, accuracy class, and application conditions.