FTT71

TEMPERATURE TRANSMITTER

Futuristic FTT71 Temperature Transmitter stands as a versatile solution for temperature transmission, accommodating 8 types of thermocouples and 3 types of RTDs. With a 24-bits sigma-delta analog front end, it ensures exceptional precision in data processing.

FEATURES

- Programmable universal inputs -
    - RTD: Pt100, Cu50, Cu100
    - Thermocouple: K, J, E, T, S, R, B, N
    - PT1000 and WRe (custom made)
- 2 wires 4-20mA output
- High accuracy -
    - 0.1% for RTD
    - 0.2% for TC
- Configurable via PC software & android smart phone
- Surge protection
- Reverse connection protection
- Includes a low voltage monitor
- USB-based configuration from android smart phone eliminates the need for an external power supply
- Can be installed in form B connection box

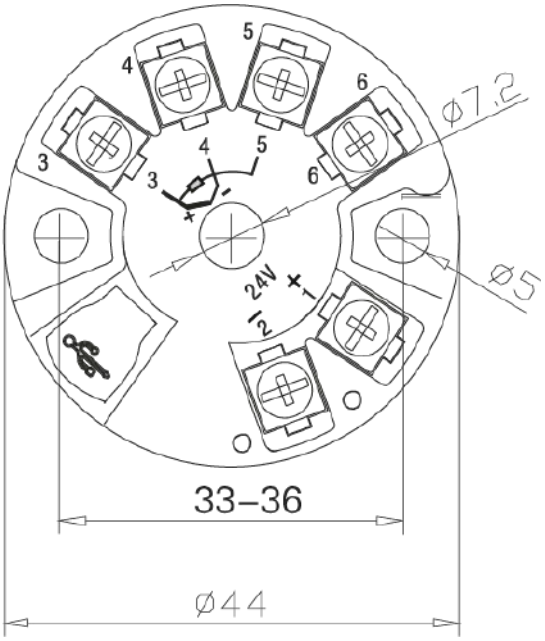
SPECIFICATIONS

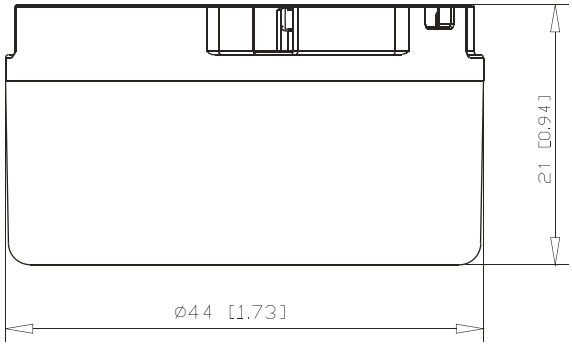
Sensor Type	Pt100, Cu50, Cu100, K, J, E, T, S, R, B, N
	Pt100 and WRe inputs need to be custom made standard units donot work for them
Compensate Accuracy	±1°C
Output	4-20mA, 2 wire
Load Resistance	RL≤(Ue-12)/0.021
Over range alarm value	IH = 20.8mA, IL = 20.8mA
Input break output current value	21mA
Power supply	12-35VDC
Accuracy (ambient 20°C)	0.1% F.S for RTD, 0.2% F.S for TC
Temperature drift	0.01% F.S/°C
Response Time	1ms to 90% of maximum output
Isolation Type	Non-isolation
EMC Standard	IEC 61326-1
Working temperature	-40°C~ +80°C
Mounting screw	M4*2

INPUT SIGNAL AND RANGE

Sensor Type	Specific Sensor Type	Measuring Range	Minimum Measuring Range
RTD	Pt00	-200.0~850.0°C	10°C
	Cu50	-50.0~150.0°C	10°C
	Cu100	-50.0~150.0°C	10°C
TC	B	400~1800°C	500°C
	E	-100~1000°C	50°C
	J	-100~1200°C	50°C
	K	-180~1372°C	50°C
	N	-180~1300°C	50°C
	R	-50~1760°C	500°C
	S	-50~1760°C	500°C
	T	-200~400°C	50°C
Custom	WRe3-25	0~2315°C	500°C
	Wre5-26	0~2310°C	500°C
	Pt1000	-200.0~850.0°C	10°C

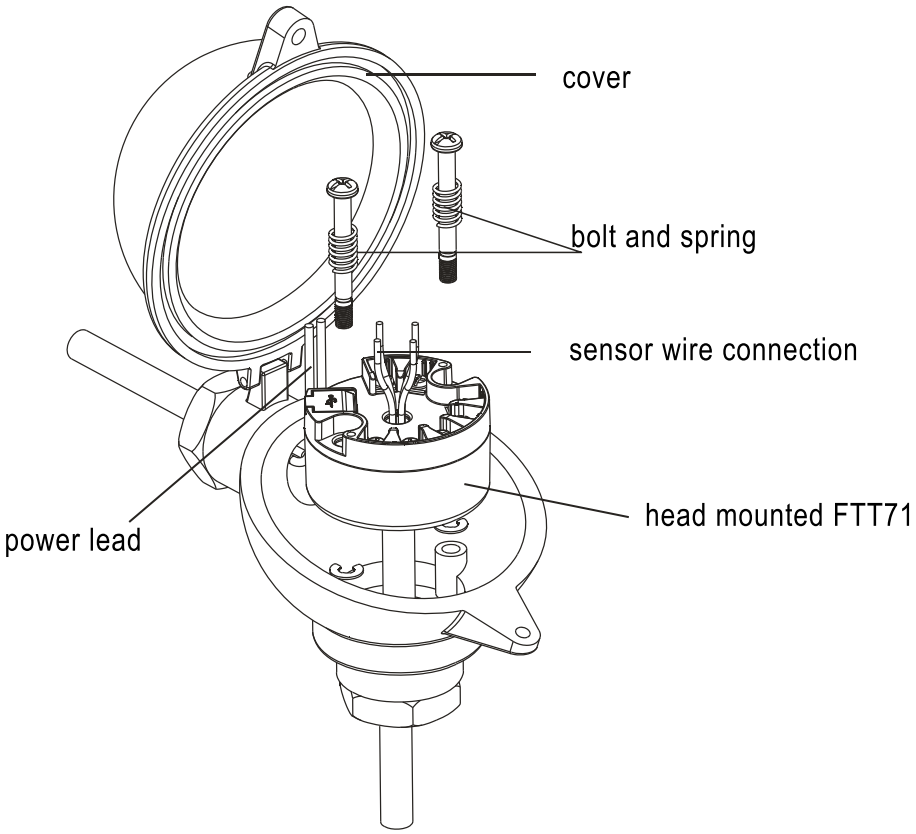
DIMENSION DRAWING



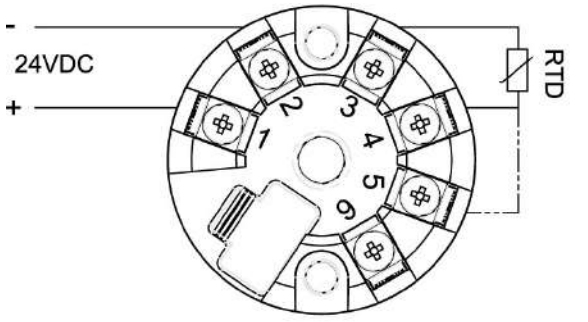


Unit: mm(inch)

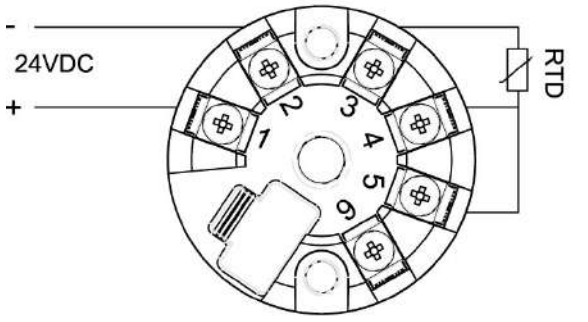
INSTALLATION DIAGRAM



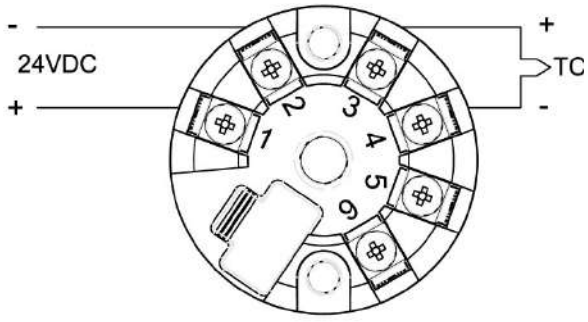
CONNECTION



RTD 2-WIRE



RTD 3-WIRE



THERMOCOUPLE

Futuristic FTT71 supports multiple types of sensors, including Pt100, Cu50, Cu100, TC_K, TC_E, TC_B, TC_S, TC_J, TC_N, etc.

Please connect as shown above, solid lines are leading wires of the sensor, while dotted lines are short wires, which requires the user to utilize short wire to connect.

CONFIGURATION GUIDELINES

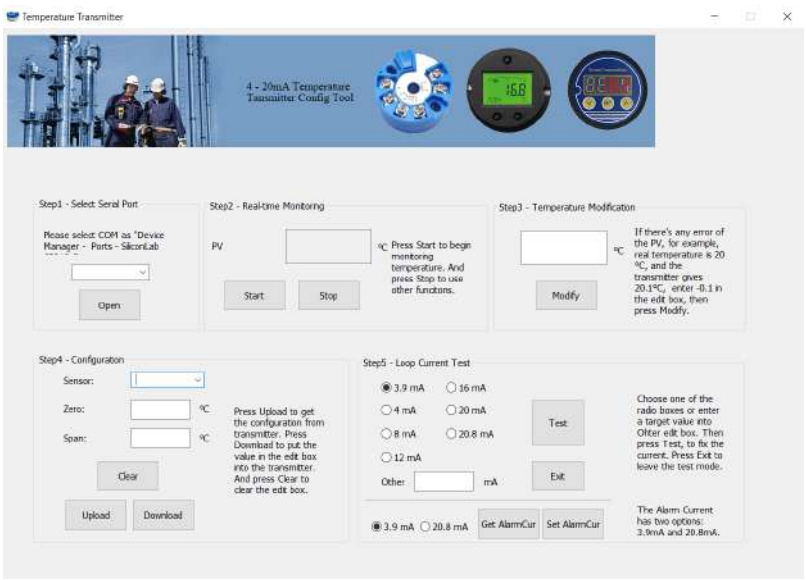
The FTT71 can be configured using either a PC or an Android smartphone.

Connect the FTT71 to your device using the programming cable provided for this purpose.

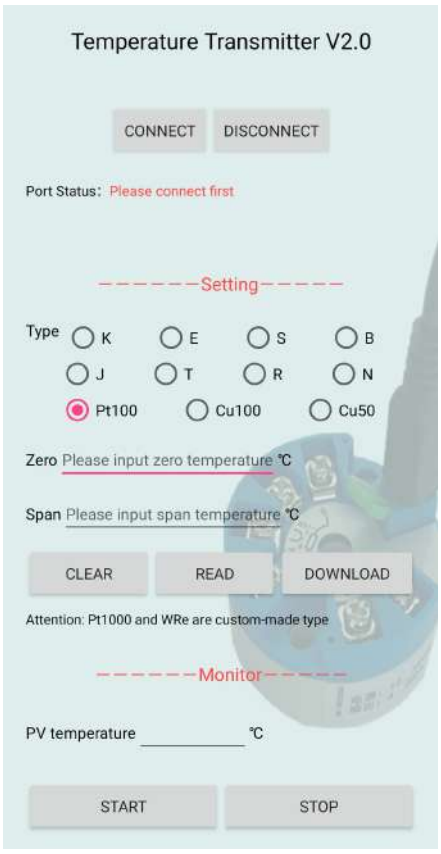
Please note: The programming cable supplied is custom-made for optimal compatibility and safety. Use the provided custom-made programming cable only. Using an alternative cable may result in damage to the transmitter.

SOFTWARE INTERFACE

Desktop/Laptop View



Android Smart Phone View



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