



OVERVIEW

Operation

SKTC is a head mount temperature transmitter with a single input. The single input accepts thermocouples, RTD, resistance or voltage source. All inputs are linearized and converted in to an industrial standard 4 to 20 mA output for transmission to your system.

Application

- Thermocouples
- Resistance temperature probes

Features

- Can convert all inputs to 4-20 mA
- Input, thermocouples, RTD, resistance or voltage
- Configuration directly via PDA or PC
- Build-in cold junction compensation
- Available with screw-in temperature probe



OPERATING DATA

Operating Temperature

-40...85°C

Accuracy

±0,1% FS

Response Time

≤1 s

Ingress Protection

4g^2-150 Hz

Configuration

PAD or PC

Cold Junction Compensation

Built-in

MEASURING RANGES

RTD Temperature Probes

-200...800°C for PT100

-50...150°C for Cu50

0...4500 Ω

Thermocouples

-500...1820°C

RTD Temperature Probes

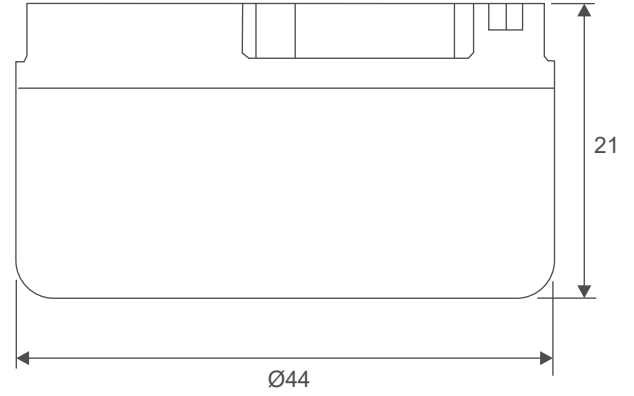
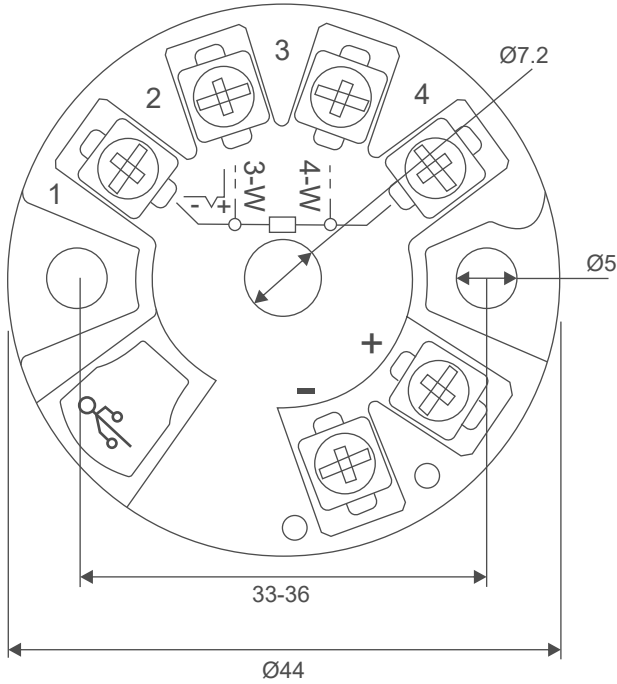
Description	Measuring Range		Minimum Measuring Range	Connection Type
PT100	-200°C	850°C	10K	Three-wire
Cu50	-50°C	150°C	10K	Three-wire
Resistance Transmitter	0 Ω	4500 Ω	500K	Two-wire

Thermocouples

Description	Measuring Range		Minimum Measuring Range	Connection Type
B	400°C	1820°C	500K	Two-wire
E	-100°C	1000°C	50K	Two-wire
J	-100°C	1200°C	50K	Two-wire
K	-180°C	1372°C	50K	Two-wire
N	-180°C	1300°C	50K	Two-wire
R	-50°C	1760°C	500K	Two-wire
S	-500°C	1760°C	500K	Two-wire
T	-200°C	400°C	50K	Two-wire



TECHNICAL DRAWINGS AND DIMENSIONS



Unit is mm

ELECTRICAL DATA

Signal Input

RTD (PT100), SKTC-P
Universal, SKTC-U

Power Supply

12-35 VDC

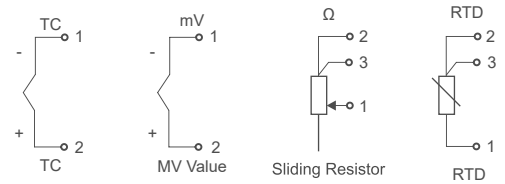
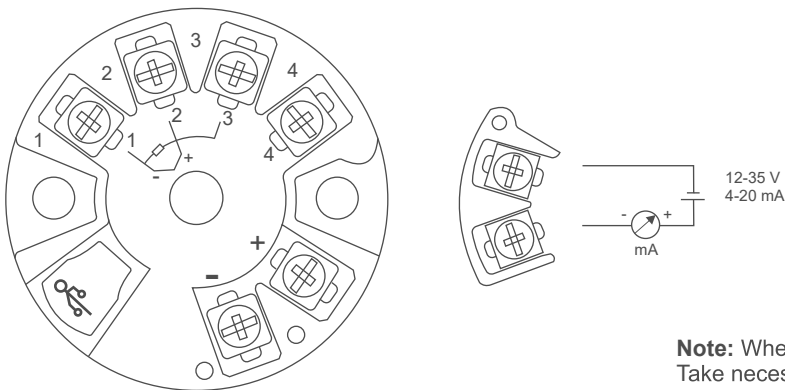
Signal Output

4-20mA 1-5 V (Customized)

Digital Communication

Hart protocol as optional

WIRING



Note: When mounting on a sensor head, do not overtighten the screws. Take necessary measure to avoid corrosion or damage of cables and wires.

