

4-20 MA OUTPUT, NON-ISOLATED

How to build a part number:

To order an Applied Sensor Technologies transmitter, select the requirements for the categories listed below and fill in the corresponding boxes with your selection. Don't see exactly what you need? Give us a call!

TRANSMITTER TYPE	INPUT	RANGE	UNITS OF MEASURE	OPTION

TRANSMITTER TYPE

TC2 – Non-isolated transmitter with thermocouple input and single 4-20 mA output for terminal head mounting

RTD2 – Non-isolated transmitter with RTD input and single 4-20 mA output for terminal head mounting

INPUT

J – J type thermocouple

K – K type thermocouple

E – E type thermocouple

T – T type thermocouple

Pt100 – 100-ohm platinum RTD

Pt500 – 500-ohm platinum RTD

Pt1000 – 1000-ohm platinum RTD

R – R type thermocouple

S – S type thermocouple

B – B type thermocouple

Ni100 – 100-ohm nickel RTD

Ni1000 – 1000-ohm nickel RTD

Cu10 – 10-ohm copper RTD

Ni120 – 120-ohm nickel RTD

RANGE (specify minimum and maximum values, e.g., 0-100)*

– **Minimum Range Value** (temperature value that equals 4 mA)

– **Maximum Range Value** (temperature value that equals 20 mA)

UNITS OF MEASURE

Specify °F or °C

OPTION

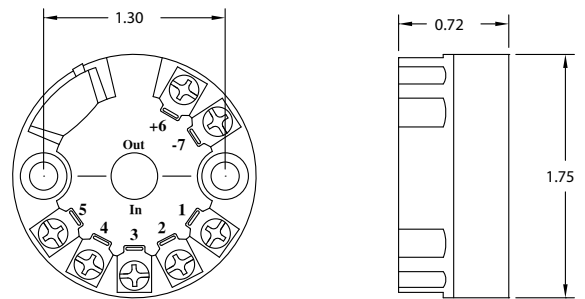
DS01 – Downscale open circuit and short circuit detection

Specifications

Input:	Thermocouple or 3-wire/4-wire RTD
Supply Voltage:	8-32 VDC, polarity protected
Maximum Load:	$R_{max} = (V_{supply} - 8V) / 0.022$
Linearity:	RTD $\pm 0.1\%$ of span TC $\pm 0.2\%$ of span
Stability:	0.01 °C/°C
Output:	4-20 mA temperature linearized
Ambient Temperature:	-40 to + 85 °C
Housing:	PC/ABS
Open Circuit Detection:	Upscale standard

Note: when used as an option in combination with a temperature sensor assembly, use option code **TR12** at end of assembly part #.

RTD2 AND TC2



*Available sensor ranges and limitations

Sensor Type	Min. Temp.	Max. Temp.	Min. Span
J T/C	-200°C	1000°C	2 mV
K T/C	-200°C	1350°C	2 mV
E T/C	-200°C	1000°C	2 mV
T T/C	-200°C	400°C	2 mV
R or S T/C	-50°C	1750°C	2 mV
B T/C	0°C	1800°C	2 mV
Pt100 RTD	-200°C	1000°C	10°C
Pt1000 RTD	-200°C	200°C	10°C
Ni100 RTD	-60°C	250°C	10°C
Ni120 RTD	-70°C	300°C	10°C
Ni1000 RTD	-100°C	150°C	10°C
Cu10 RTD	-200°C	260°C	100°C