

4-20 MA/HART® OUTPUT, 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

UNI5-H – Isolated transmitter with single 4-20mA/HART® 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

Pt250 – 250-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

Ni500 – 500-ohm nickel RTD

Ni1000 – 1000-ohm nickel RTD

Cu10 – 10-ohm copper RTD

Cu100 – 100-ohm copper 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

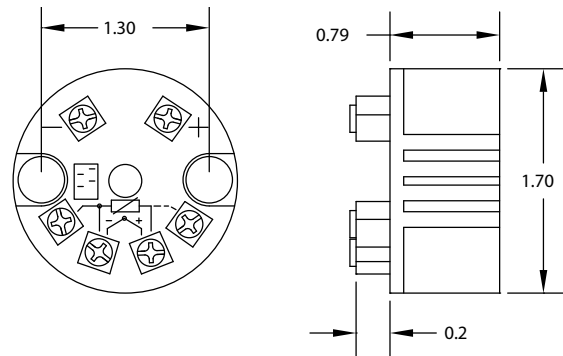
OPTION

DS01 – Downscale open circuit detection

Specifications

| | |
|-------------------------|---|
| Input: | Thermocouple or 3-wire/4-wire RTD |
| Isolation (I/O): | 500 VDC |
| Supply Voltage: | 10-40 VDC, polarity protected |
| Output: | 4-20mA or 20-4 mA |
| Digital Output: | HART® protocol |
| Sensor Lead Resistance: | RTD: 500 ohms max. T/C: 10,000 ohms max. Effect: 0.001 °C/ohm |
| Maximum Load: | $R_{max} = (V_{supply} - 10) / 20 \text{ mA}$ |
| Stability: | Zero drift = 0.02 °C/°C Span drift = 0.01 °C/°C |
| Ambient Temperature: | -40 to + 85 °C |
| Start-Up Time | 5 sec. |
| Warm-Up Time | 5 min. |
| Housing: | Epoxy-coated zinc alloy |
| Open Circuit Detection: | Upscale standard |

UNI5-H



*Available sensor ranges and limitations

| Sensor Type | Min. Temp. | Max. Temp. | Min. Span |
|---|------------|------------|-----------|
| J T/C | -200°C | 1200°C | 50°C |
| K T/C | -270°C | 1370°C | 50°C |
| E T/C | -270°C | 1000°C | 50°C |
| T T/C | -270°C | 400°C | 50°C |
| R or S T/C | -60°C | 1760°C | 250°C |
| B T/C | 0°C | 1820°C | 600°C |
| Pt100, Pt250, Pt500 and Pt1000 RTD | -200°C | 850°C | 25°C |
| Ni100, Ni, 500 and Ni1000 RTD | -60°C | 250°C | 25°C |
| Cu10 and Cu100 RTD | -200°C | 250°C | 25°C |

Note: when used as an option in combination with a temperature sensor assembly, use option code **TR13** at end of assembly part #.