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!

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<thead>
<tr>
<th>TRANSMITTER TYPE</th>
<th>INPUT</th>
<th>RANGE</th>
<th>UNITS OF MEASURE</th>
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**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
- 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 protection

*See chart below for available sensor ranges and minimum spans

**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
  T/C: 10,000 ohms max.
- Maximum Load: R_{inc} = (V_{supply} -10)/20 mA
- Stability: 0.005%/°C (zero & span drift)
- Ambient Temperature: -40 to + 85°C
- Housing: Epoxy-coated zinc alloy
- Open Circuit Detection: Upscale standard

**Available sensor ranges and limitations**

<table>
<thead>
<tr>
<th>Sensor Type</th>
<th>Min. Temp.</th>
<th>Max. Temp.</th>
<th>Min. Span</th>
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<tbody>
<tr>
<td>J T/C</td>
<td>-200°C</td>
<td>1200°C</td>
<td>50°C</td>
</tr>
<tr>
<td>K T/C</td>
<td>-270°C</td>
<td>1370°C</td>
<td>50°C</td>
</tr>
<tr>
<td>E T/C</td>
<td>-270°C</td>
<td>1000°C</td>
<td>50°C</td>
</tr>
<tr>
<td>T T/C</td>
<td>-270°C</td>
<td>400°C</td>
<td>50°C</td>
</tr>
<tr>
<td>R or S T/C</td>
<td>-60°C</td>
<td>1760°C</td>
<td>250°C</td>
</tr>
<tr>
<td>B T/C</td>
<td>0°C</td>
<td>1820°C</td>
<td>600°C</td>
</tr>
<tr>
<td>Pt100, Pt250, Pt500 and Pt1000 RTD</td>
<td>-200°C</td>
<td>850°C</td>
<td>25°C</td>
</tr>
<tr>
<td>Ni100, Ni500 and Ni1000 RTD</td>
<td>-60°C</td>
<td>250°C</td>
<td>25°C</td>
</tr>
<tr>
<td>Cu10 and Cu100 RTD</td>
<td>-200°C</td>
<td>250°C</td>
<td>25°C</td>
</tr>
</tbody>
</table>

*See chart below for available sensor ranges and minimum spans

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