

**Sanitary RTD Temperature Sensor  
with IO-Link/Switch and 4 to 20 mA Outputs**

**Description**

The Omega PRTXS series of temperature transmitters are IO-Link capable for reliable, bi-directional, point to point communication for process data and sensor configuration; also equipped with a scalable 4-20 mA analog output and a PNP switch that can handle current draws up to 200 mA. These sensors utilize a PT100 Class A RTD element to provide an accuracy of  $\pm 0.55\text{ }^{\circ}\text{C}$  throughout the entire measuring range of  $-50\dots+200\text{ }^{\circ}\text{C}$  ( $-58\dots+392\text{ }^{\circ}\text{F}$ ). Made with a fully welded 316L Stainless Steel housing, the sensor has excellent corrosion resistance and is IP69K rated. Available in standard lengths from 2 " to 6 ", with a probe diameter of 1/4 ", and sanitary flanges in sizes of 1.5 ", 2.0 ", 2.5 ". All wetted surfaces are 316L Stainless Steel with a surface finish of 32 micro inches or better.



**Features**

- IO-Link / PNP switch / 4-20 mA outputs
- Scalable temperature range from  $-50$  to  $200\text{ }^{\circ}\text{C}$  ( $-58$  to  $392\text{ }^{\circ}\text{F}$ )
- Designed for sanitary applications
- Wetted surfaces are 316L Stainless Steel with a surface finish of 32 micro inches or better

**Specifications**

<b>Temperature Measuring Range:</b>	-50 to 200 °C (-58 to 392 °F)
<b>Ambient Temperature Range:</b>	-40 to 85 °C (-40 to 185 °F)
<b>Operating Voltage:</b>	15 to 30 VDC (IO-Link/Switch); 10 to 30 VDC (Analog)
<b>Accuracy:</b>	Full Measuring Range $\pm 0.55\text{ }^{\circ}\text{C}$ (0.99 °F) Scaled Measuring Range $\pm [0.215\text{ }^{\circ}\text{C}$ (0.39 °F) + 0.134 % x (Measuring Span)]
<b>Output:</b>	IO-Link Communication / PNP Switch (200 mA) / Analog 4-20 mA
<b>Response Time (Water):</b>	T90 = 2 sec (1/8 " dia); 2 sec (3/16 " dia); 4 sec (1/4 " dia)
<b>Housing Construction:</b>	316L Stainless Steel, IP67/IP68/IP69K rated
<b>Certifications:</b>	CE, UKCA, 3-A, EHEDG
<b>Probe Lengths:</b>	2 ", 3 ", 4 ", 6 " (custom lengths available upon request)
<b>Process Connection Sizes:</b>	1.5 ", 2.0 ", 2.5 " Tri-clamp

**Example Model No.**

**Example Description**

**PRTXS-1.5T-1/4-6-IO**

RTD Temperature Transmitter, 1.5 " Tri-clamp Process Connection, 1/4 " Probe Diameter, 6 " Probe Length