

TM311 iTHERM CompactLine

Temperature Sensors/Transmitters

Part No. [TM311-P801/0](#)Part No. [TM311-TLR0/0](#)Part No. [TM311-TLR0/0](#)/[TM311-TLV1/0](#)

The Endress+Hauser TM311 iTHERM® CompactLine conveniently combines a precision RTD sensing element and transmitter electronics in a single stainless steel temperature transmitter probe. Preconfigured for a process measuring range of 0 to +150 °C (32 to +302 °F), the TM311 can be used for a wide variety of temperature sensing applications. Several probe insertion lengths are available, and process connections include male NPT thread or 3-A approved sanitary clean in place tri-clamp. An M12 quick-disconnect provides electrical connection and can be connected to operate as a loop powered 4-20 mA output signal or with IO-Link communications that enable access to various temperature process variable, configuration, diagnostic, and logging parameters.

Features

- Endress+Hauser iTHERM CompactLine RTD and transmitter electronics combined in a stainless steel probe
- Fast response time with Endress+Hauser TipSens RTD sensing element
- Preconfigured process measuring temperature range
- 4-20 mA or IO-Link communications that enable access to various temperature process variable, configuration, diagnostic, and logging parameters.
- 30, 50, 100, and 150mm probe insertion lengths
- Process connections include 1/4", 1/2" male NPT threads, or 3-A approved sanitary CIP tri-clamp
- M12 quick-disconnect electrical connection



For a variety of cable options see our website www.AutomationDirect.com

Endress+Hauser TM311 Series iTHERM Temperature Sensor/Transmitter Selection

Part Number	Sensing Element	Temperature Range	Insertion Length	Probe Diameter	Process Connection	Output	Electrical Connection	Weight (lb)	Price
<u>TM311-P801/0</u>	Pt100 RTD	0 to 150°C (32 to 302°F)	30mm	6mm	1/4in male NPT	1-channel, 4-20mA / IO-Link	4-pin M12 quick-disconnect	0.78	\$247.00
<u>TM311-TLN8/0</u>			50mm					0.79	\$251.00
<u>TM311-T5U0/0</u>			100mm					0.80	\$251.00
<u>TM311-TLP9/0</u>			150mm					0.81	\$251.00
<u>TM311-ART9/0</u>			30mm		1/2in male NPT			0.88	\$247.00
<u>TM311-TLR0/0</u>			50mm					0.88	\$251.00
<u>TM311-2F91/0</u>			100mm					0.90	\$251.00
<u>TM311-TLT0/0</u>			150mm					0.91	\$251.00
<u>TM311-TLU6/0</u>			30mm		1-1/2in sanitary tri-clamp			0.93	\$234.00
<u>TM311-TLV1/0</u>			50mm					0.93	\$238.00
<u>TM311-TWH1/0</u>			100mm					0.95	\$238.00
<u>TM311-TLX2/0</u>			150mm					0.95	\$238.00

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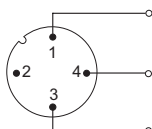
Endress+Hauser TM311 Series iTHERM Temperature Sensor/ Transmitter Information				
Part Number	Drawing Links	Manufacturer Tech Specs	Manufacturer Quick Start	Manufacturer Manual
<u>TM311-2F91/0</u>	<u>PDF</u>	<u>PDF</u>	<u>PDF</u>	<u>PDF</u>
<u>TM311-ART9/0</u>	<u>PDF</u>			
<u>TM311-P801/0</u>	<u>PDF</u>			
<u>TM311-T5U0/0</u>	<u>PDF</u>			
<u>TM311-TLN8/0</u>	<u>PDF</u>			
<u>TM311-TLP9/0</u>	<u>PDF</u>			
<u>TM311-TLR0/0</u>	<u>PDF</u>			
<u>TM311-TLT0/0</u>	<u>PDF</u>			
<u>TM311-TLU6/0</u>	<u>PDF</u>			
<u>TM311-TLV1/0</u>	<u>PDF</u>			
<u>TM311-TLX2/0</u>	<u>PDF</u>			
<u>TM311-TWH1/0</u>	<u>PDF</u>			

For complete technical information and installation see [Manufacturer Tech Specs](#) and [Manual](#) links.

Wiring Information

IO-Link operating mode

- Pin 1 - power supply 15 to 30 VDC
- Pin 2 - not used
- Pin 3 - power supply 0 VDC
- Pin 4 - C/Q (IO-Link or switch output)



4 to 20 mA operating mode

- Pin 1 - power supply 10 to 30 VDC
- Pin 2 - power supply 0 VDC
- Pin 3 - not used
- Pin 4 - not used

