Endress + Hauser TM311 iTHERM CompactLine **Temperature Sensors/Transmitters**



Part No. TM311-P801/0



Part No. TM311-TLR0/0



Part No. TM311-TLR0/0TM311-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
- Preconfigured process measuring temperature range
- 4-20 mA or IO-Link communications that enable access to various temperature process variable, configuration, diagnostic, and logging
- 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 guick-disconnect electrical connection





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

End	ress+Ha	user TM3				re Sensor/	Transmitte	r Selection	1
Part Number	Sensing Element	Temperature Range	Insertion Length	Probe Diameter	Process Connection	Output	Electrical Connection	Weight (lb)	Price
TM311-P801/0	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	\$06n?7:
TM311-TLN8/0			50mm					0.79	\$06n?8:
TM311-T5U0/0			100mm					0.80	\$06n?9:
TM311-TLP9/0			150mm					0.81	\$06n?a:
<u>TM311-ART9/0</u>			30mm		1/2in male NPT			0.88	\$06n?b:
TM311-TLR0/0			50mm					0.88	\$06n?2:
TM311-2F91/0			100mm					0.90	\$06n?3:
TM311-TLT0/0			150mm					0.91	\$06n?4:
TM311-TLU6/0			30mm		1-1/2in sanitary tri-clamp			0.93	\$06n?5:
TM311-TLV1/0			50mm					0.93	\$06n?6:
TM311-TWH1/0			100mm					0.95	\$06n?c:
TM311-TLX2/0			150mm					0.95	\$06n?d:



TM311 iTHERM CompactLine Temperature Sensors/Transmitters

Endress + Hauser TM311 Series iTHERM Temperature Sensor/ Transmitter Information										
Part Number	Drawing Links	Manufacturer Tech Specs	Manufacturer Quick Start	Manufacturer Manual						
TM311-2F91/0	PDF		<u>PDF</u>							
TM311-ART9/0	PDF									
TM311-P801/0	PDF			PDF						
<u>TM311-T5U0/0</u>	PDF									
<u>TM311-TLN8/0</u>	<u>PDF</u>									
<u>TM311-TLP9/0</u>	<u>PDF</u>	PDF								
TM311-TLR0/0	<u>PDF</u>	<u>FDF</u>		<u>PDF</u>						
TM311-TLT0/0	<u>PDF</u>									
<u>TM311-TLU6/0</u>	<u>PDF</u>									
<u>TM311-TLV1/0</u>	PDF									
<u>TM311-TLX2/0</u>	PDF									
<u>TM311-TWH1/0</u>	<u>WH1/0</u> PDF									

For complete technical information and installation see Manufacturer Tech Specs and Manual links.

Wiring Information

IO-Link operating mode

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



4 to 20 mA operating mode

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

