

# Endress+Hauser Thermometer TM311-AAC0BD2CBB4A1LC

## Compact Pt100 temperature sensor with IO-Link and 4 to 20 mA for general and sterile applications



Picture for reference only. Product appearance may vary based on configuration

The iTHERM CompactLine TM311 is a thermometer that provides accurate and fast process temperature measurements in hygienic and aseptic applications. It is available with a common Pt100 RTD or a Pt100 RTD with TipSens technology reaching response times as low as 1.5 s (t90) for optimum process control. The sensor is very accurate even with short immersion lengths.

- Version with iTHERM TipSens offers best-in-class response times with a T90 time of 1.5 seconds
- Version with iTHERM TipSens ensures a highly accurate measurement for short immersion lengths for example in small pipelines in the food and beverages industry
- Fast installation and easy commissioning thanks to compact dimensions for installation in tight spaces
- 4...20mA and IO-Link in one device. Perfect to save costs for stock

### Configuration of TM311-AAC0BD2CBB4A1LC:

|                               |    |   |
|-------------------------------|----|---|
| Approval:                     | AA | Non-hazardous area                                  |
| Output:                       | C  | IO-Link/4-20mA, 0...+150oC                          |
| Design; Diameter Insert:      | 0  | W/o thermowell, direct contact; 6mm                 |
| Material Wetted Parts:        | B  | 316L  |
| Process Connection:           | D2 | Clamp>NA Connect DN25-38 (1-1.5"), ISO 2852, form B |
| Surface Wetted Parts:         | C  | Ra<=0.38um/15uinch                                  |
| Sensor Type; Measuring Range: | B  | iTHERM TipSens; -50...+200oC                        |
| Immersion Length U:           | B4 | 30 mm   |
| Thermowell Connection:        | A  | Not needed, no thermowell, direct contact           |
| Neck Length E:                | 1  | Not needed  |
| >>Additional Approval:        | LC | EHEDG   |

Alternative part number: TM311-EL70/0