

Intelligent Building Solutions

Technical Description



TS 10 xxM Temperature Sensor

Accessory for
CIB-tech

The TS 10 xxM is a temperature sensor that can be used with CIB-tech thermometers and thermostats. The TS 10 xxM device is one of the available options for CIB-tech devices that come without a temperature sensor¹. It can also be used as an alternative external temperature sensor for CIB-tech devices that come with an internal temperature sensor².

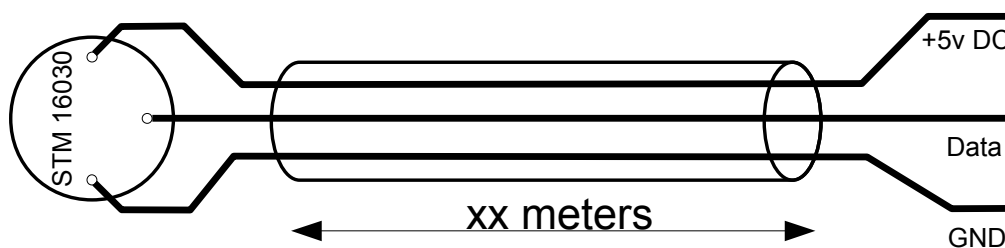
The TS 10 xxM is in fact a SMT16030 digital temperature sensor with an extension cable. The length of the cable can be from 1 to 20m with the default length of 2m. Note that using cables longer than 5m is not recommended if stable, precise measurement is critical, do to the fact that the TS 10 xxM has no supply filter near the SMT16030 digital temperature sensor.

Technical Specifications

Electrical characteristics

- **Power supply (from CIB-tech device):** 5V DC
- **Signal output**
 - PWM duty-cycle output, conform SMT16030 specifications³

Equivalent electrical drawing:



Part description

- **Sensor:** SMARTEC's SMT16030 digital temperature sensor;
- **Cable:** xx meters of shielded cable;
- **Cable color coding**
 1. Green or Blue: GND
 2. White or Yellow: Data
 3. Red or Brown: +5V

Order code:

T	S		1	0		x	x	M
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Where 'x x' is the length of the cable in meters. The default length is 2m. Other lengths are available on custom request. If otherwise not specified (TS 10 xxM is in order) the default TS 10 02M is shipped.

NOTE: The TS 10 xxM temperature sensor is NOT water resistant.

¹ These are typically DIN-rail mounting CIB-tech thermometers and thermostats. Ex: CTM 2010 D, CTM 2020 D, CTM 2030 D, CTS 2010 D. Check IBS device list for other products.
² These are typically surface mounting CIB-tech thermometers and thermostats. Ex: CTM 2010 S, CTS 2010 SRB, CTS 2020 SRB, CTS 2030 SRB. Check IBS device list for other products.
³ For details on SMARTEC's SMT16030 digital temperature sensor visit SMARTEC home page: <http://www.smartec.nl/>.

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