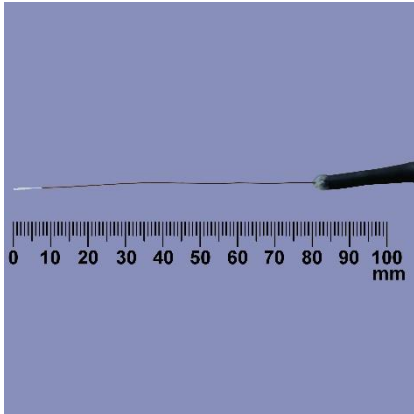


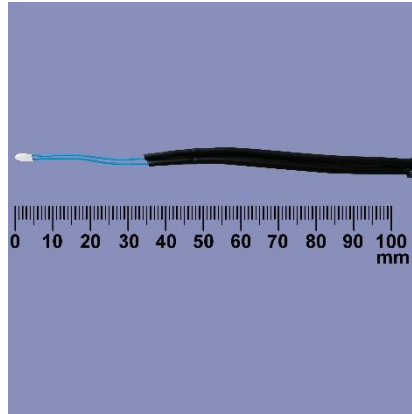
# Temperature sensors

## T-Tissue, T-Surface, T-Soil

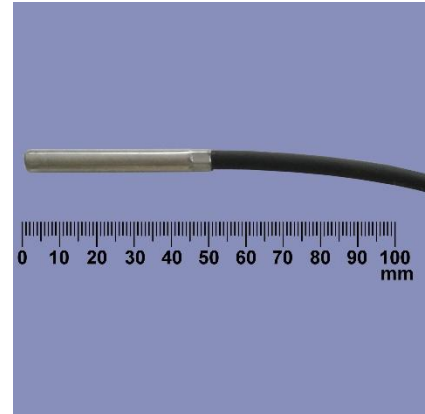
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T-Tissue



T-Surface



T-Soil

### Technical Specifications

Sensor Name	Temperature Sensor		
	T-Tissue	T-Surface	T-Soil
Application	Temperatures of inner tissues	Surface temperature	Soil temperature
Range of the sensor	-40 to 70°C		
Accuracy	+/- 0.2 °C		
Resolution	Theoretically infinite, depends on data logger (e.g. CR1000-Logger with 667 µV resolution within a Signal range of +/- 2500mV: 0.1°C)		
Output signal type	Within below specified operating conditions: voltage between 333 to 2300 mV, when supplying the sensor with 2500 mV		
Power supply	Excitation voltage Vex usually switched 2500 mV, power up 100ms max. Power consumption negligible.		
Operating conditions	Temperature: -40 to 70 °C		
Size and weight	cylindric, diameter 0.5 mm, length 3.3 mm, 0.1g (only sensor tip without cable)	ball-shaped, diameter 2 mm, 0.3g (only sensor tip without cable)	cylindric, diameter 6 mm, length 50 mm, 5g (only sensor tip without cable)
Cable length and connector	Complete with 5 m sensor cable (extendable to up to 50m) Standard connector type 'bare wired' (optional: stereo plug for DL 18 data logger)		