



Specifications TT3

Tamson Thermometer 3decimals



Item	Unit	TT3
Ordering code		10T6095
Range		-100..+300°C/-148..572°F
Reading		°C or °F menu selectable
Interface		RS232
Resolution	[°C/F]	0.001
Accuracy*	[°K]	± 0.01
Linearity*	[°K]	± 0.01
Power		Battery NiMH operated
Charge		2Hrs
Mains adapter		100-240~50/60Hz 9V-1A
Sleep current		0.01mA
Nominal current		2mA
Battery pack		800mAh
Log time	[hr]	19hr sample rate 1s 5700hr sample rate 300s
Sample rate	[sec]	1,2,5,10,20,60,120,300
Dimensions	[mm]	105x32x150 (LxWxH) excl probe
Weight	[gr]	355 (incl probe)
Power	[Watt]	Battery NiMH operated
Frequency	[Hz]	Suited for both 50 & 60
Use	[°C]	20 .. 30 (or ambient temperature)
	[%]	10..90 humidity (relative)
CE		All models conform to CE regulation

** From -40 .. +150°C relative to our calibration standard

- ⊕ 3 decimal reading
- ⊕ Small device
- ⊕ LED backlight
- ⊕ Built-in data logging
- ⊕ High stability
- ⊕ High linearity
- ⊕ Conforms to IEC751
- ⊕ Rechargeable battery (NiMH)
- ⊕ Free software

General

The Tamson Thermometer has a three decimal reading. The thermometer uses a class "A" PT100 probe for and meets the IEC751 required accuracy of $\pm 0.01^\circ\text{C}$ by using a correction table. A calibrated instrument has an uncertainty better than $\pm 0.01^\circ\text{C}$ relative to our calibration standard. The menu offers reading in degree Celcius or degree Fahrenheit.

Construction

A high accuracy dataconverter samples the PT100 value and a microprocessor is used to correct these values. The calibration data is kept in internal memory. A second memory offers the possibility for data logging. Sampling times can vary from 1 second to 300 seconds. At each interval the temperature is measured and stored. Each measurement has an individual time stamp and can be recalled easily using the PC software.

The thermometer operates on a 5xAAA rechargeable battery pack. A full charge supplies power for several days of continuous use. When switched off the battery will keep its charge.

CE

The thermometer conforms to CE regulation.

Communication

The thermometer can be used on RS232 or USB ports.

Supply

Including battery pack and adapter. Order cable and RS232 converter when Tamcom (free of charge) software is used.

Software

A free software package is supplied on our web site providing the handling of the logged data. The measured temperature can be stored as Vector image, Bitmap or as Comma Separated Value (CSV). These CSV files can be read by MS Excel for further analysis.

The software is easy to use and to install and runs on all Microsoft platforms.

Calibration



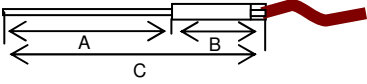





The device is calibrated off work in a range from -40 .. 150°C**.

RS232

- 24T0038 RS232 .. USB converter
- 24T0037 Cable 2mtr
- 24T0036 Cable 1mtr

Parts

- 21T0200 Carrying case, necessary option
 - 25T2350 Temperature probe* -100..300°C/-148..572°F
115 x 3mm, Class "a", necessary option
 - 10T6096 Works certificate 0 .. +150°C **
 - 10T6097 Works certificate -40 .. +150°C **
 - 10T6098 Verification per point [-40 .. +150°C]**
- * The unit will be calibrated in combination with the supplied probe in order to meet IEC 751. It is not possible to exchange probes.
** Uncertainty $\pm 0.01^\circ\text{C}$, relative to our certified calibration standard.

10T6096		Works certificate [0 .. +150°C 32 .. +302°C] Uncertainty ± 0.01 °C of TT3 is relative to our certified calibration device
10T6097		Works certificate [-40 .. +150°C -40 .. +302°F] Uncertainty ± 0.01 °C of TT3 is relative to our certified calibration device
10T6098		Verification calibration per point [-40 .. +150°C -40 .. +302°F] Uncertainty ± 0.01 °C of TT3 is relative to our certified calibration device
25T2350		Temperature probe -100..+300°C/-148..+572°F Cable length 1050mm Probe: A=115x3; B=100x6; C=215 [mm]; Class "a". 
24T0038		RS232 .. USB converter
24T0037		Cable 2mtr
24T0036		Cable 1mtr
24T0019		12V Adapter*
28T4185		Battery pack*
21T0200		Carrying case

* Spare items, TT3 already is equipped with battery and battery charger