

## THERMAL PROFILER RT-03

The temperature profile recorder RT-03 is a useful accessory for fine-tuning the SMT soldering process.

It enables the user to improve the setting of the oven parameters, to optimise production and to check the soldering process quality, by just looking at the temperature vs. time graph.

The device uses four K-type Ni-Cr-Ni micro thermocouples to obtain accurate measurements and high-speed responses.

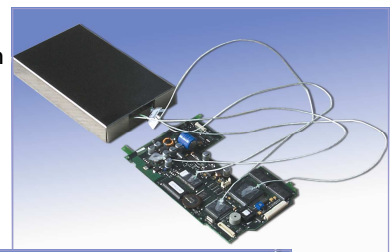


Recording is started and stopped by a manual switch. The maximum duration of recording is 54 minutes, after that time it stops automatically. Of course, in real time, with the profiler connected to a Pc you will be able to record and visualize profiles data for a longer time (about 5 hours).

Its small size and compact body makes it an easy-to-use device, suitable for any type of oven.

The software is developed for any Windows system from 95 version onwards. The software manages the communication with the recorder and displays the graph of temperature versus time on the PC monitor using a different colour for each channel. It also provides the following data processing:

- display of thermal gradient, calculating the speed of temperature changes in Celsius degrees per second
- display of three-dimensional temperature graphic
- zooming-in part of the graph, to highlight the most interesting parts
- hard copy of the graphs
- profiles data storage on hard disk.



As option are available the following thermocouples:

Type K thermocouple 3000 mm length (ref. code: **TERRT1300K**)

Type K thermocouple 4000 mm length (ref. code: **TERRT1400K**)

Type K thermocouple 10000 mm length (ref. code: **TERRT1000K**)



### TECHNICAL SPECIFICATION

- **Power supply:** AC Adapter, 7.2 V 500mA (included)
- **Working voltage:** 7.2 Volt-DC
- **Input:** 4 channels with thermocouples
- **Thermocouples length:** 500 mm (included)
- **Accuracy:**  $\pm 2$  °C (at 100 °C)

- **Battery operation:** about 4 hours
- **Recording time:** 54 minutes max
- **Dimensions:** 340x510x200mm. (Depth x Width x Height)
- **Net weight:** 3,5 Kg
- **Packaging:** 350x520x210mm. (Depth x Width x Height)
- **Gross weight:** 4 kg