

User Guide

ThermaPro 2

THERMAPRO2 DATA LOGGER





Spigitron part of Rototherm Group

Starting

- Connect the RS232/USB cable to the 4 pin male/ RS232 cable.
- Install the Thermapro2 software CD from the USB and open Thermapro2 file icon.
- Connect the Thermapro2 P.C. cable to the Thermapro2 unit. Marry the COMMS number to the software, via P.C
 Device manager and on the software - Options/Preferences. Ensure USB driver/Window is updated.
- Enter the unlock code and serial number provided on the USB stick.
- Click Logger configuration –

Various options can be selected to configure the logger. Once completed to the users specifications, click <u>Store</u> at the bottom of the page. Ensure the date & time from P.C is up to date.

• Disconnect the P.C cable attached to the Thermapro2 unit.

Using the Logger

- Attach probes to the Thermapro2 unit.
- Start the Logger by clicking the Start button on the unit and place into the thermal barrier provided. A green flashing LED will appear, indicating each sample taken.
- Insert the probe(s) into the product(s) and place the Thermapro2 into the application area. (oven conveyor belt)

Once the run has completed, use the thermal protective gloves to remove the Thermapro2 from the oven. <u>WARNING – HOT TEMPERATURE.</u>

- Open the thermal barrier and press the Stop button on the logger, a red LED will flash once to indicate the logger has stopped.
- Allow the logger to cool to an ambient temperature, before downloading the data.
 <u>Disconnect the unit from the P.C once the data has</u>
 <u>been downloaded as a constant connection will drain</u>
 <u>the battery.</u>
- A safety data feature ensures that stored data cannot be overwritten until downloaded.





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Communication Errors

- Ensure Unlock code & Serial No. has been entered into the software and has passed.
- Ensure date & time has been updated to current date & time on software (Logger Config.) and has been stored.
- Ensure cables are fitted into their respected ports and no damaged. Check continuity.
- Marry up the COMMS No. port from P.C (Device Manager) to software (Preferences).
- Restart Software & P.C.
- Update if necessary the COMMS driver in (Device Manager / Prolific USB-to-Serial COMMS port / Driver) (Reset P.C once updated).
- Update P.C. Windows if needed.
- Ensure battery level is normal.
- Right Click on ThermaPro2 icon and open Properties/Compatibility and select the tick box under Compatibility mode, select the Windows that the P.C is running.
- Do not open the front cover of the unit on the unit as warranty will be void.

🎫 Th	ermaPro 2	Properti	ies		
General Shortcut Co	ompatibility Se	curity Deta	ils		
If this program isn't v running the compatit	vorking correctl pility troublesho	y on this vers oter.	sion of Windo	ows, trj	
Run compatibility troubleshooter					
How do I choose compatibility settings manually?					
Compatibility mode Image: Run this program in compatibility mode for: Image: Windows 8					
Settings Reduced color 8-bit (256) color	mode				
Run in 640 x 480 screen resolution					
Run this progra	im as an admin gram to work w	istrator ith OpeDrive	files		
Change settin	gram to work w		11165		
	ОК	Cano	el	Apply	



Logger specification

Operating Temperature	-20°C to +85°C for up to 1 hour Without Thermal Barrier Up to + 350°C (Depending on Thermal Barrier size) Refer to table on next page	
Instrument Accuracy	± 1°C throughout operating temperature (+ 0.1%t below -100°C) Resolution: 0.1°C	
Logger Storage Temperature	- 40°C to + 100°C	
Sampling Interval	0.125s to 99hrs	
Features	 Calculation of P / Fo / Fh / C Value With selectable Tref and z value temperatures. Data security – Does not allow overridden data until previous data has been downloaded. Exportable excel result table Unique unlock code password Noise filtering Various Thermocouple options to choose from (On purchase request) Range of Thermal barrier protectors Graph form with max and min guidelines with annotation note text box Full Range of edit functions and printing facilities Probe disconnection detection 	
Memory Capacity	130,560 samples	
Clock/Delay Start	Data stamped with time/date by on board real-time clock. The clock also allows logger to start at a pre- selected time/date, allowing data gathering to begin without direct supervision	
Battery	3.6V Lithium Thyionyl Chloride Expected life equivalent to 1 test per day for 5 years	
Application	 Food Processing Oven/freezer process diagnoses Bacteria sterilization kill zone values Sterilizing Transporting Freezing Processing Adhesive manufacturing Temperature profiling Soldering Textiles 	
Logger Dimensions	140mm x 126mm x 17mm	



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Thermal Barriers:

TB40 - 40 mm x 220mm x 260mm TB60 - 60 mm x 220mm x 260mm TB80 - 80 mm x 220mm x 260mm TB100 - 100 mm x 240mm x 280mm TB120 - 120 mm x 240mm x 280mm

Thermocouple Inputs Range: Refer to IEC 60584 - 2013



Software Features





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Calculation of P / Fo / Fh / P / C Values



Calibration	★ Calibration + Service Plus ★	
 Calibration and tolerance adjustments UKAS traceable Calibration certificate Battery change if necessary Probe check 	 New set of thermal gloves Battery change Thermal barrier, heat protection relining Thermal barrier, thermal sheath replacement Calibration and tolerance adjustments UKAS traceable Calibration certificate Calibration graph USB with most updated software + unlock code Replacement probes if necessary Deep contamination clean Replacement thermocouple sockets if necessary 	
Price TBA – +44 (0) 1656 747 575 <u>digitronsales@rototherm.co.uk</u>	Price TBA - +44 (0) 1656 747 575 <u>digitronsales@rototherm.co.uk</u>	