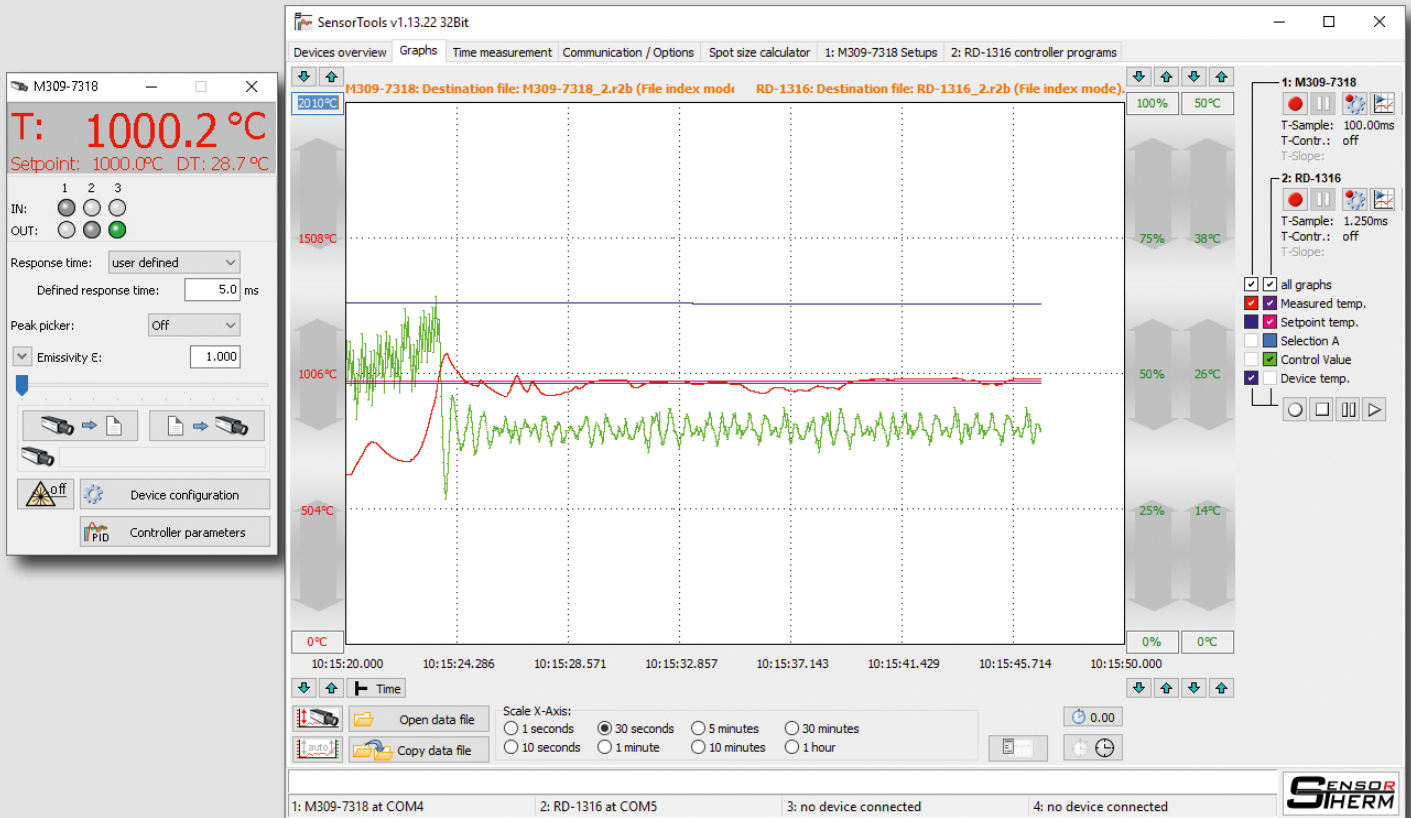


Software SensorTools

Adjustment, Processing and Analyzing Software



The PC software for communication with

- Sensortherm pyrometers
- Sensortherm temperature controllers
- Sensortherm calibration sources

Regular updates with new features

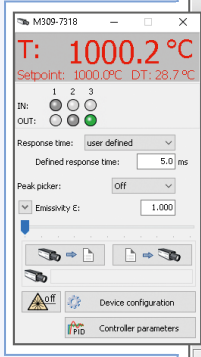
Download: www.sensortherm.de/en/download-section

- Measured values of up to 4 devices simultaneously, numerically and graphically
 - Graphical representation scalable
 - Setting of all device parameters
 - Transferring device parameters to other devices
 - Extremely fast measured value recording (up to 50 μ s), adjustable recording rate
 - csv export
- and much more...

Connect - Adjust - Display - Record - Evaluate

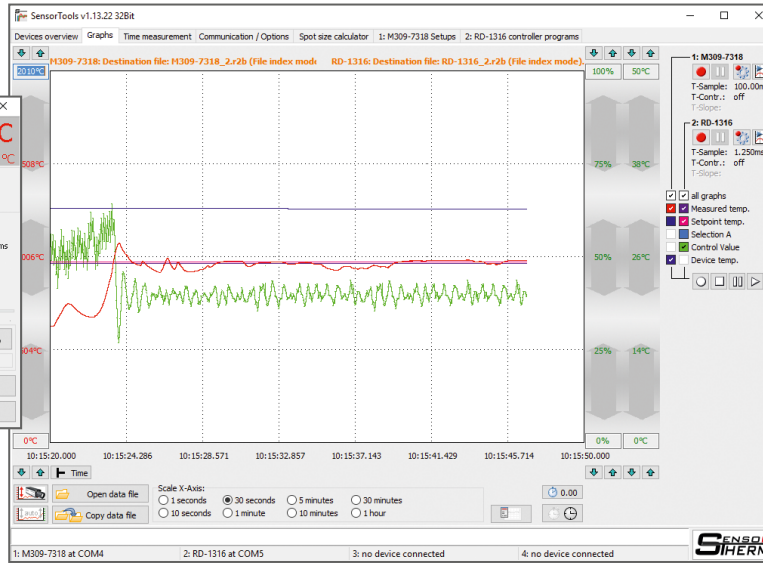
Control window

- Measured temperature and device temperature display
- Display of active, deactivated and inactive digital inputs and outputs
- Adjust measuring parameters
- Save measurement parameters quickly
- Select device configurations
- Activate laser targeting light / configure camera
- Set the motorized focus
- Define control parameters



Main window

- Connect the measuring devices (up to 4 devices simultaneously)
- Graphical representation of the temperature profile
- Device and software updates, language settings, command terminal



Sidebar

- Device model
- Recording from one device or all at the same time
- Define recording settings
- See recording data

Graphs

- Select required graphs
- Choose a color
- Y-Axis: Enter the scale limits or move quickly with the mouse
- X-axis: Select display time for graph generating between 1 s for details and 8 h for long-term monitoring
- X-Axis: Switch between time and time set manual to 0

Evaluation

- Instantly play back measured data, load from saved data file, view details, print
- csv export for easy measurement data transfer, e.g. In Excel

Extras

Data collection modes

- Easy mode selection for setting the measurement data transfer to the PC
- Customize the data rate

Time measurement

- Measure the time between a start and end temperature

Single-point temperature adjustment

- Compensate for optical losses in measurements through windows or lenses

Customize

- Device language, display or suppress temperature on the device, key lock, laser targeting light switch-off
- Transferring device parameters to other devices

Spot size calculator

- Calculate spot sizes outside the focused distance

<input type="radio"/> 9600 Baud	50 values/s	30 values/s
<input checked="" type="radio"/> 19200 Baud	90 values/s	40 values/s
<input type="radio"/> 38400 Baud	170 values/s	80 values/s
<input type="radio"/> 57600 Baud	250 values/s	110 values/s
<input type="radio"/> 115200 Baud	500 values/s	170 values/s
<input type="radio"/> 230400 Baud (R5485)	1000 values/s	250 values/s
<input type="radio"/> 460800 Baud (R5485)	2000 values/s	340 values/s
<input type="radio"/> 921600 Baud (R5485)	3340 values/s	400 values/s

Automatic single-point adjustment:
 Adjustment temperature: °C
 Start: Start automatic adjustment
 Continue: Measurement with covered optics
 Confirm: Optics cover is removed
 Continue: Determine adjustment values
 Result: The single-point adjustment was completed successfully. Note that the emissivity or emissivity slope as well as transmittance and spot size filling were set to 1 respectively 1100%.
 Backup file: Yes No

Laser targeting light setting: Turn off after: s
 Device display:
 Device language:
 Key lock: PIN:

Spot size calculator diagram:
 METIS M3 laser with focal length $f = 1200.0$ mm.
 Distances: $a = 1000.0$ mm, $a_2 = 750.0$ mm.
 Spot diameters: $D = 30$ mm, $M_2 = 6.5$ mm, $M = 6.0$ mm, $M_1 = 8.8$ mm.

System Requirements

Operating systems: Windows 7, 8, 8.1, 10 (32 or 64 Bit)

Recommended PC: i7 multi-core processor with 3 GHz and 16 GB RAM, screen resolution min. 1024x768.

(NOTE: When connected and configured with older computers with less capacity, data capturing or recording errors may occur when transmitting data)

PC Connection: Via device interface to PC interface (RS232 or RS485, USB via USB interface converter).

Sensortherm reserves the right to make changes in scope of technical progress or further developments.

Sensortherm-Datasheet_SensorTools-Software (July 17, 2017)

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