

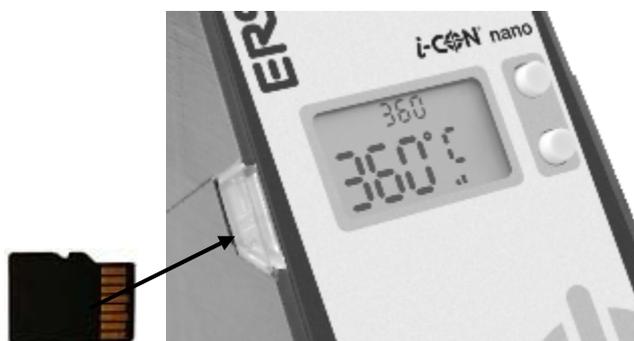
# i-CON nanoSD extended Funktionen with microSD Card

The i-CON *nano* soldering station provides extended functions by use of a microSD (or microSDHC) Card.

In addition to the soldering station a Windows PC and the software „nanoSD.exe“ are necessary.

The software program „nanoSD.exe“ can be downloaded at [www.ersa.com/nano](http://www.ersa.com/nano).

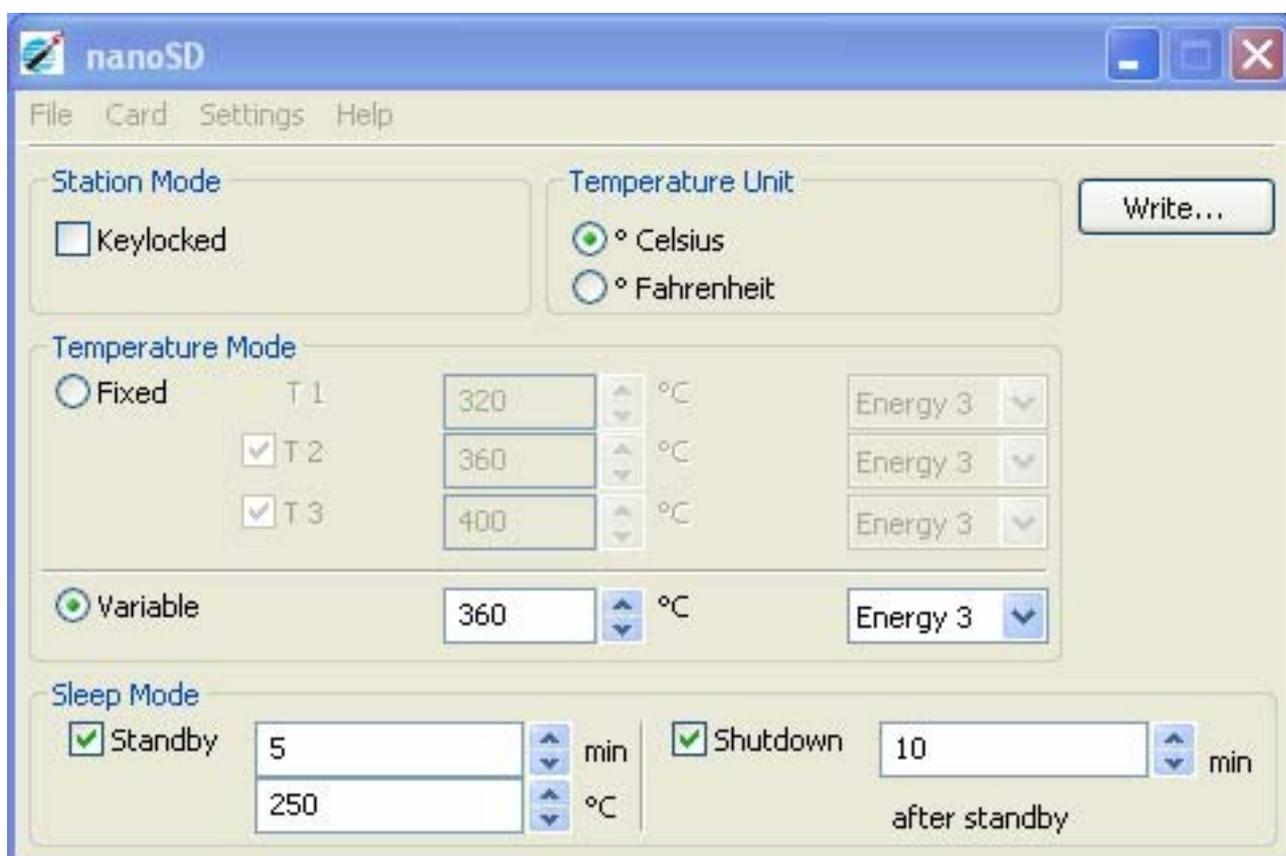
To read the microSD card, the i-CON nano provides a micro SD slot on its left side. Please make sure to insert the SD-card carefully and in the shown orientation like depicted below. To activate extended functions on teh i-CON nano the operator sets the required parameters in the PC software „nano SD“ and transfers the data to the micro SD card by clicking the „Write...“ button. This card can be used to transmit the parameters to any i-CON nano soldering station. The data will be stored in the soldering station even after the card is removed again.



### NOTE:

When data is transferred from the micro SD card to the station the display shows „Sd-Crd“ in the head line. If parameters are changed the station shows up „LOAD“ in the display. Please do not remove the microSD card while the display shows „Sd-Crd“. To early removal of the card may generate reading errors. Those will be indicated by „Err 1“. Re-inserting the microSD card removes the error.

PC Software „nano SD“



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The following extended functions are available:

1. Station Mode
  - 1.1. Keylocked
2. Temperature Unit
  - 2.1. Celsius
  - 2.2. Fahrenheit
3. Temperature Mode with Energy Settings
  - 3.1. Fixed
  - 3.2. Variable
4. Sleep Mode
  - 4.1. Standby and shut down
5. Additional Notes

## 1 Station Mode



### 1.1 Keylocked

Locks the soldering station. No settings can be modified on the station when it is locked.

The only way to change settings while the Keylocked mode is active is to insert a micro SD card into the card reader slot. Once the microSD is removed again, the station is locked again. Inserting a micro SD card will re-transmit the original parameters stored on the SD card to the soldering station.

The microSD card works like a key with reset function, during the Keylocked mode is active.

## 2 Temperature Unit



### 2.1 Celsius

### 2.2 Fahrenheit

The temperatures on the display and in the PC software are shown in Celsius or Fahrenheit, depending on the selection.

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## 3 Temperature Mode with Energy Settings



Mode	Temperature (°C)	Energy Level
<input type="radio"/> Fixed T 1	320	Energy 3
<input checked="" type="checkbox"/> T 2	360	Energy 3
<input checked="" type="checkbox"/> T 3	400	Energy 3
<input checked="" type="radio"/> Variable	360	Energy 3

### 3.1 Fixed

Up to three fixed temperatures and related energy levels can be set and activated.

All fixed temperatures – after downloaded to the soldering station – can be selected by one of the two buttons on the i-CON nano. Pressing one pushbutton for the first time shows the actually selected temperature flashing. Pressing again selects the next fix-temperature. The new selection becomes active when the flash mode ends automatically.

The energy level setting is related to the heating behaviour of the i-Tool nano soldering iron and influences the soldering performance and precision of the tip temperature.

Energy level 1 provides no overshoot of the tip temperature. This is recommendable for very sensitive soldering applications.

Energy level 2 provides faster heat recovery and generates slight temperature overshooting.

Energy level 3 (factory setting) heats very intensive and thus creates higher overshooting.

### 3.2 Variable

(Factory setting) The soldering station is working with **one set temperature** only, adjustable from 150°C to 450°C by using the push buttons. Also here the energy level can be selected.

## 4 Sleep Mode



Mode	Time (min)	Temperature (°C)
<input checked="" type="checkbox"/> Standby	5	250
<input checked="" type="checkbox"/> Shutdown	10	after standby

### 4.1 Standby and shut down

Using the Standby reduces the tip temperature during operational breaks and minimizes the wearing of soldering tips.

The standby-time can be set from 1 to 60 minutes (factory setting is 5 minutes).

If the operator deactivates the check box „Standby“ both, the Standby- as well as the shut down Mode are inactive. The Standby-temperature can be set from 150°C to 300°C (factory setting is 250°C).

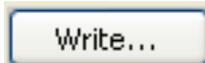
Shut down reduces the tip temperature down to room temperature.

When the Standby time is elapsed with the station in Standby mode, the heating will switch off. Using the „Shutdown“ checkbox this mode can be set or unset. If “Shutdown” is inactive the station will rest in the standby mode until it is reactivated by the operator.

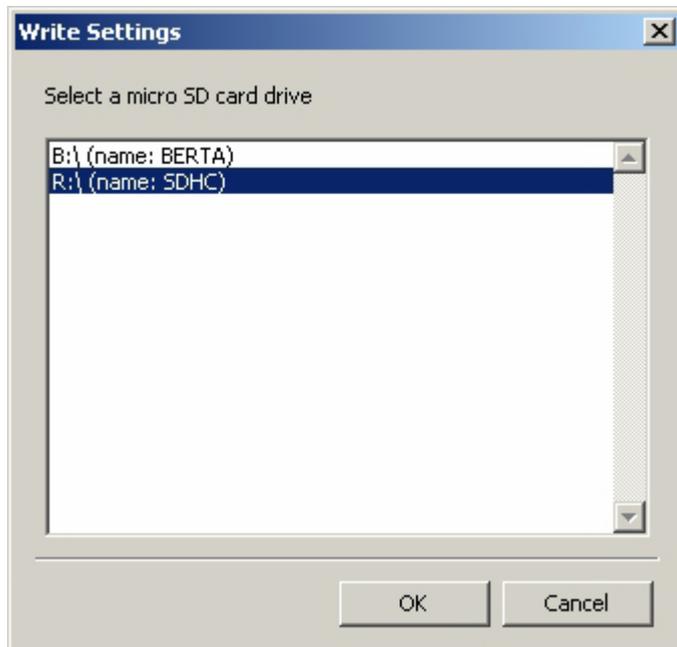
Values can be set from 10 to 240 Minutes (factory setting is 5 minutes).

Reactivation of the soldering station from shut down or Standby is done by pressing one push button. Activation from Standby can also be achieved by cooling the soldering tip e.g. by cleaning it in the dry sponge.

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**Write** saves all parameters to the microSD card.



Clicking the „Write...“ button opens the dialogue like shown above. All available card drives are listed. Hard disk drives and Floppy disk drives are not listed. The drive with the microSD card needs to be selected. When clicking on the **OK** button the data will be transferred to the microSD card.

**NOTE:** When the microSD card is formatted with the Windows Explorer the can be named. This name will lateron be shown in the dialogue from above and makes selection of the correct microSD card easier.

**NOTE:** The data transferred to the microSD card cannot be written in subfolders and cannot be moved to other directories than originally written to.



The menu bar of the nanoSD software provides further functions.

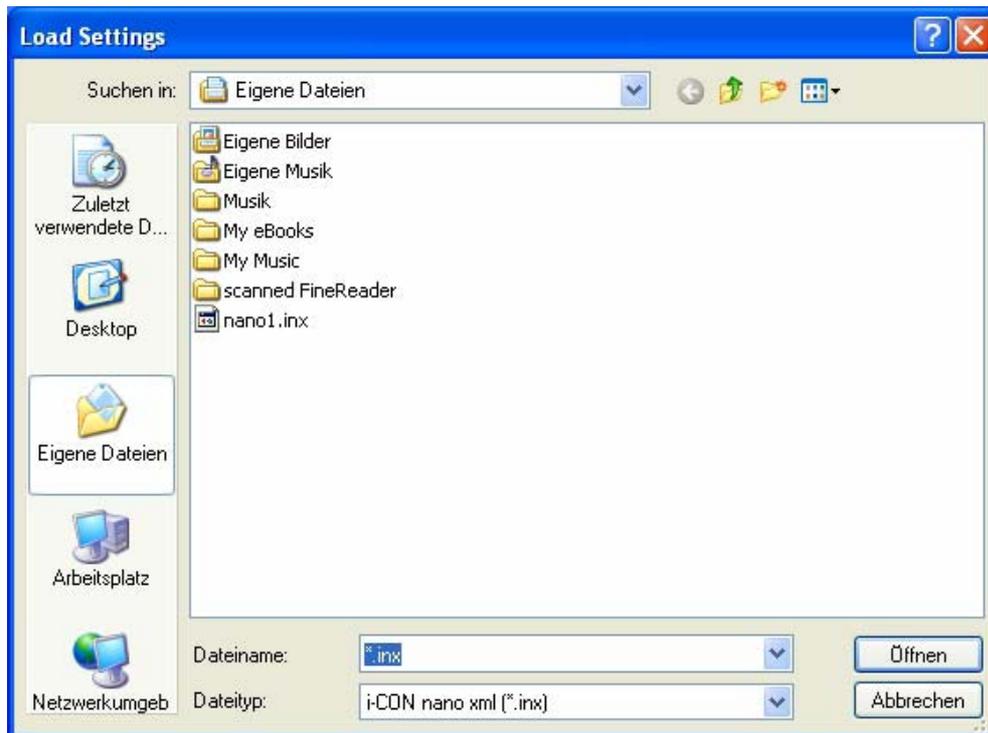
- Generating, Saving and Opening of files.



**New** resets the nanoSD software to the original settings. A given filename during opening or saving of a file will be reset.

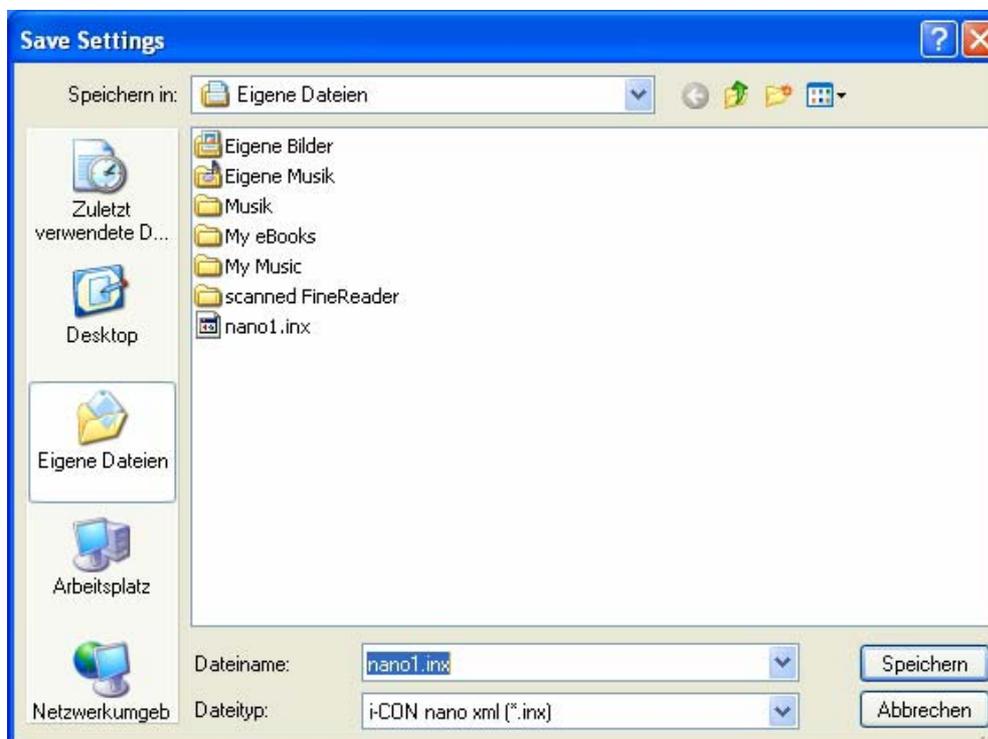
**Open...** starts the well known Windows dialogue to open an existing file.

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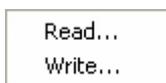
**Save** stores the actual parameter settings to the actual filename. If no file name is existing the software starts up the **Save As ...** dialogue.

**Save As ...** allows to store data with a new file name.

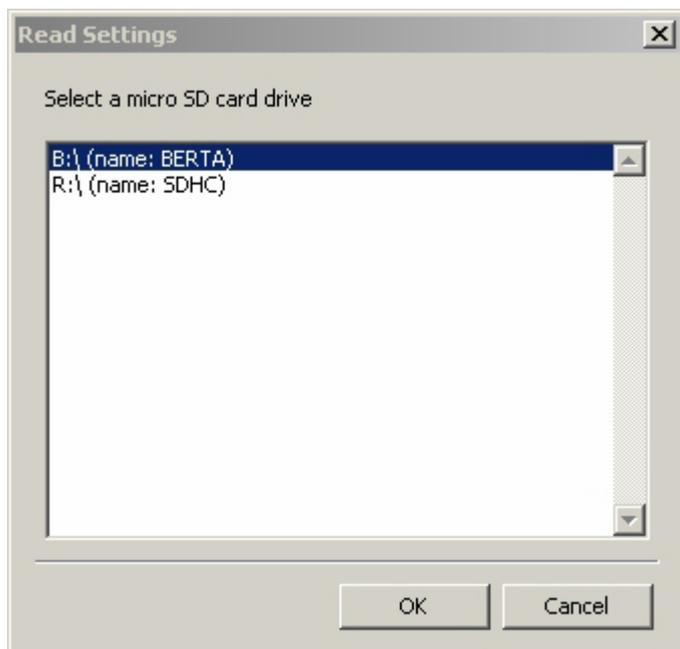


# i-CON nanoSD extended Funktionen with microSD Card

- Reading and Writing of the microSD card.



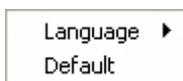
**Read...** loads data from the microSD card to the nanoSD program and displays them.



Again first the correct microSD drive needs to be selected. Only those drives are listed that contain microSD cards with valid configuration data stored. If no valid configuration data can be found on any drive, the software displays a message. The “OK” button starts the reading procedure and the data is shown.

**Write...** has the same function as the Write... Button, explained above. All data is written to the microSD card.

- Language selection



**NOTE:** Currently the only available language selection is English.

**Default** resets the surface of the nanoSD software to the standard settings. Other than **New** an existing file name will be kept.

- Documentation provides help data to the nano SD software.



**About...** shows the below depicted information.

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The above shown link [www.Ersa.de](http://www.Ersa.de) is redirected to the web site <http://www.Ersa.com/nano> which provides Information and downloads of the nanoSD software.

## 5 Additional Notes

- The i-CON nano soldering station can only read data from the microSD card. The station **cannot** WRITE data to the card.
- For data transmission the file **NANO.CFG** is used. This file needs to exist in the root directory of the microSD card to be recognized by the soldering station. The nanoSD software can write this file only to the microSD root directory. If the above mentioned file is erased or moved to another place it is out of reach for the soldering station.
- The file name **NANO.CFG** must not be used for any other file. The nanoSD software will **overwrite this file** if it exists and contains other than configuration data. Other information will be erased.
- On the microSD card it is allowed to save other files and subdirectories. For your safety it is recommended to backup this data on a different place.