

Weller®

WD 1 / WD 1000

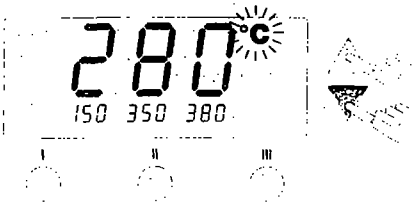
- | | |
|-----------------------------|-----------------------------|
| (D) Betriebsanleitung | (TR) Kullanım kılavuzu |
| (F) Mode d'emploi | (CZ) Návod k použití |
| (NL) Gebruiksaanwijzing | (PL) Instrukcja obsługi |
| (I) Istruzioni per l'uso | (H) Üzemeltetési utasítás |
| (GB) Operating Instructions | (SK) Návod na používanie |
| (S) Instruktionsbok | (SLO) Navodila za uporabo |
| (E) Manual de uso | (EST) Kasutusjuhend |
| (DK) Betjeningsvejledning | (LT) Naudojimo instrukcija |
| (P) Manual do utilizador | (LV) Lietošanas instrukcija |
| (FIN) Käyttöohjeet | |

3.1 Temperature setting

3.1.1 Individual temperature setting

As a rule, the display (1) shows the temperature actual value. By actuating the **UP** or **DOWN** button (2) (3), the display switches to the currently set specified value. The temperature symbol °C or °F flashes.

The specified value can now be changed by tapping or holding in the **UP** or **DOWN** button (2) (3) in the corresponding direction. If the button is pressed permanently, the specified value changes in fast mode. Approx. 2 s after the button is released, the display switches automatically back to the actual value.

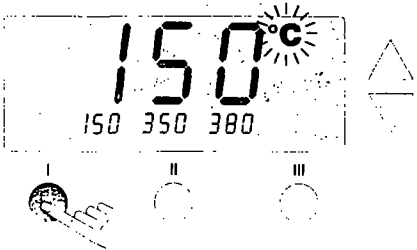


3.1.2 Temperature setting with the temperature buttons I, II, III

The specified value for the temperature can also be changed via the 3 temperature buttons I, II, III.

ex works setting:
 I 150 °C (300 °F)
 II 350 °C (662 °F)
 III 380 °C (716 °F)

By actuating a temperature button, the selected specified value appears for approx. 2 s in the display. During this display, the temperature symbol flashes. After this, the display switches back automatically to the actual value display.

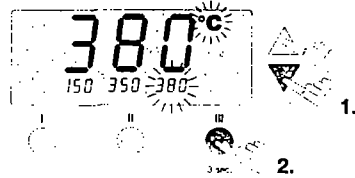


3.1.3 Assignment of the temperature buttons I, II, III

The 3 temperature buttons I, II, III can be assigned with temperature values as desired.

When the **UP** or **DOWN** button is actuated, the new temperature value is set (see 3.1.1). The temperature symbol °C or °F flashes.

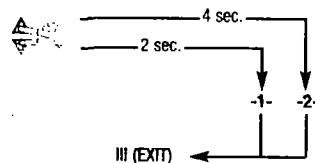
Following this, press and hold in the desired temperature button I, II or III. When the button is pressed, the small display assigned to the temperature button also flashes and, after 3 s, adopts the value of the large display. Release the temperature button again.



The assignment of a temperature button with a low "setback" temperature, gives you the option of manual temperature decrease when the soldering iron is not being used.

4. Special functions

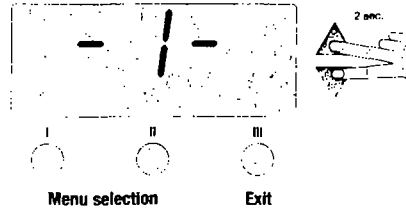
The special functions are splitted in two menu sections:
 Special function menu 1: often used functions like STANDBY, OFFSET, SETBACK, ...
 Special function menu 2: calibration function and REMOTE Id.



4.1 Special functions menu 1

If the **UP** and **DOWN** buttons are pressed simultaneously, after approx. 2 s the menu selection for the special functions is activated and - I - appears in the display, release buttons.

Menu 1

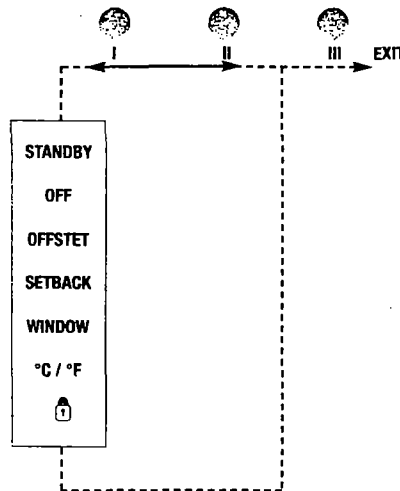


The following settings are possible:

Offset, setback, standby temperature, OFF time, lock function, window, temperature version.
 Buttons I and II are used for menu selection.
 Button III is used to leave the menu again.

Resetting the calibration to factory settings

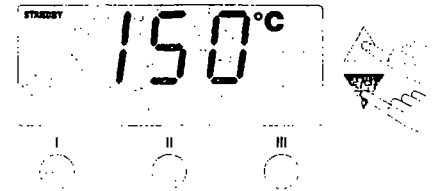
Press and hold the III key. Then press the **UP** and **DOWN** keys at the same time. "FSE" appears in the display. You can now reset the soldering station to its factory calibration.



4.1.1 Standby temperature

When the set setback time has elapsed, the specified temperature is decreased automatically to the standby value. The actual temperature is displayed (flashing) and "STANDBY" appears in the display (100 - 300°C/200 - 600°F).

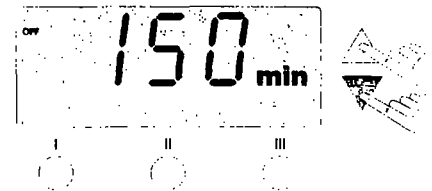
Adjust the standby temperature with the **UP** or **DOWN** button. Switch to previous menu item with I. Switch to next menu item with II.



4.1.2 Temperature switch-off Off time

When the soldering tool is not in use, the heating system of the soldering tool is switched off when the Off time has elapsed. The temperature can be set from 0 - 999 minutes. With a setting of "0 min", the setback function is switched off. The temperature switch-off is carried out independently of the set setback function. The actual temperature is displayed (flashing) and serves as a residual heat indication; "OFF" appears in the display. Below 50°C (150°F), a flashing dash appears.

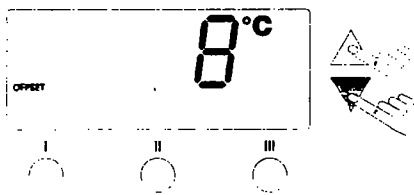
Change the off time with the **UP** or **DOWN** button. Switch to previous menu item with I. Switch to next menu item with II.



4.1.3 Temperature offset

The actual soldering tip temperature can be changed by $\pm 40^{\circ}\text{C}/\pm 72^{\circ}\text{F}$ through the input of a temperature offset.

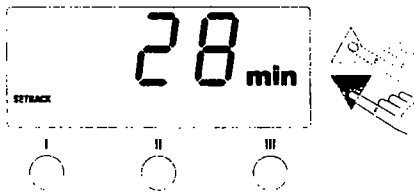
Change the offset value with the **UP** or **DOWN** button. Switch to previous menu item with **I**. Switch to next menu item with **II**.



4.1.4 Setback time

If the soldering tool is not being used, the temperature is decreased automatically to standby temperature (see 4.3) after the specified setback time has elapsed. The setback time, after which the soldering unit switches to standby mode, can be set from 0 – 99 minutes. With a setting of "0 min", the setback function is switched off. The setback status is indicated by a flashing actual value display and "STANDBY" appears in the display. The setback status is ended by pressing the **UP** or **DOWN** button.

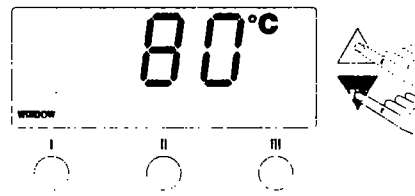
Change the setback time with the **UP** or **DOWN** button. Switch to previous menu item with **I**. Switch to next menu item with **II**.



4.1.5 Window function

Restriction of the temperature range to a max. $\pm 99^{\circ}\text{C}$ ($\pm 180^{\circ}\text{F}$), beginning with a previously locked temperature (see 4.1.7). The locked temperature thus represents the middle of the settable temperature range.

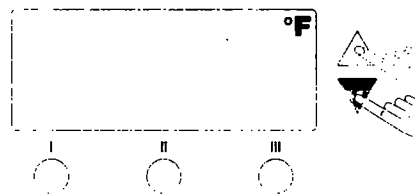
Use the **UP** / **DOWN** buttons to change the window size. Switch to previous menu item with **I**. Switch to next menu item with **II**.



4.1.6 °F/°C Switch-over

Switching the temperature version from $^{\circ}\text{C}$ to $^{\circ}\text{F}$ and vice versa.

Use the **UP**/**DOWN** buttons to switch between $^{\circ}\text{C}$ and $^{\circ}\text{F}$. Switch to previous menu item with **I**. Switch to next menu item with **II**.



4.1.7 Interlock function "⓪"

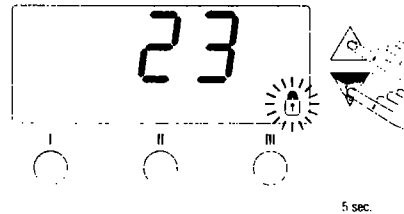
Locking the soldering station. After locking, no more setting changes at the soldering station are possible. Operation of the temperature buttons **I**, **II**, **III** is possible. "OFF" appears in the display.

The "⓪" symbol in the display flashes. The **UP** or **DOWN** button can be used to enter a 3-digit interlock code. Confirm the code by pressing the **III** button for 5 sec.: the station is locked and the "⓪" symbol in the display is active.

Exit the menu while "OFF" appears in the display by pressing **I** or **II** button, no code is saved.

To unlock, "ON" appears in the display. Enter the code and confirmation by pressing **III** button the station is unlocked.

Switch to previous menu item with **I**. Switch to next menu item with **II**.

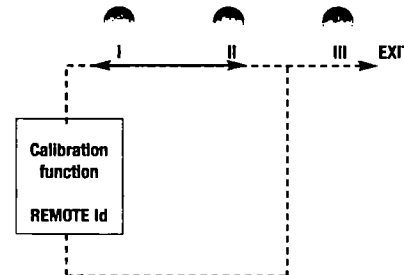
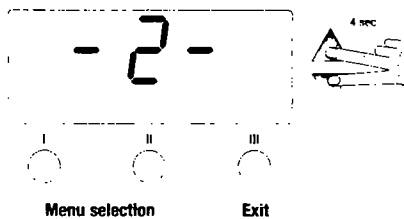


4.2 Special functions menu 2

If the **UP** and **DOWN** buttons are pressed simultaneously, after approx. 4 s menu selection 2 for the calibration function and station is activated.

- 2 - appears in the display, release buttons.

Buttons **I** and **II** are used for menu selection.

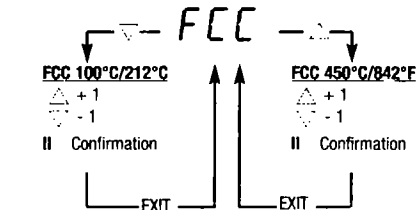


4.2.1 Calibration function (Factory Calibration Check)

Performing this function allows a check of the temperature accuracy of the soldering station and a readjustment of possible deviations.

To execute the calibration function, the soldering tip temperature must be measured. Any external temperature measuring instrument can be used to do this.

Any external temperature measuring instrument can be used to do this.



Select the calibration point with the **UP** or **DOWN** button. Button **III** is used to leave the menu again.

UP button: Calibration point $450^{\circ}\text{C}/842^{\circ}\text{F}$

DOWN button: Calibration point $100^{\circ}\text{C}/212^{\circ}\text{F}$

Resetting the special functions to factory settings

Press and hold the **III** key. Then press the **UP** and **DOWN** keys at the same time. "FSE" appears in the display. The soldering station is now reset to its factory calibration.



Important:

The soldering tool becomes hot during the calibration process. Never leave combustible materials near the hot soldering iron

Calibration of the control unit (without soldering iron) can also be carried out by a calibration laboratory. The calibration values for the soldering iron are simulated.

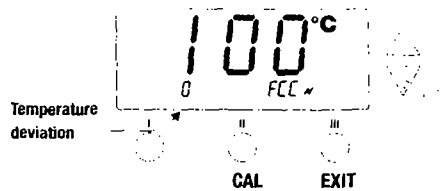
4.2.2 Change Calibration

Press the **DOWN** key
Calibration at $100^{\circ}\text{C}/212^{\circ}\text{F}$

The station adjusts the temperature of the soldering pencil to $100^{\circ}\text{C}/212^{\circ}\text{F}$. Once the temperature becomes static (at which point the indicator flashes), the soldering tip temperature (external measuring device) is compared to that shown

on the display. If a temperature deviation is found, the **UP / DOWN** keys can be used to make adjustments. A maximum temperature adjustment of $\pm 40^{\circ}\text{C}/\pm 72^{\circ}\text{F}$ is possible. If the measured temperature matches that shown on the display, press the **II** key (**CAL**) to confirm by temperature deviation is reset to 0. This concludes the calibration at $100^{\circ}\text{C}/212^{\circ}\text{F}$.

Press the **III** key (**EXIT**) to exit the menu without saving any changes.



Press the UP key Calibration at $450^{\circ}\text{C}/842^{\circ}\text{F}$

The station adjusts the temperature to $450^{\circ}\text{C}/842^{\circ}\text{F}$. Once the temperature becomes static (at which point the indicator flashes), the soldering tip temperature (external measuring device) is compared to the actual value shown on the display. If a temperature deviation is found, the **UP / DOWN** keys can be used to make adjustments. A maximum temperature adjustment of $\pm 40^{\circ}\text{C}/\pm 72^{\circ}\text{F}$ is possible. If the measured temperature matches that shown on the display, press the **II** key (**CAL**) to confirm by the temperature deviation is reset to 0.

This concludes the calibration at $450^{\circ}\text{C}/842^{\circ}\text{F}$.

Press the **III** key (**EXIT**) to exit the menu without saving any changes.

After both calibration points, 100°C (212°F) and 450°C (842°F), have been calibrated and confirmed, the calibration process is complete.



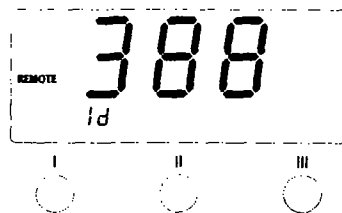
4.2.3 Station code (ID number)

When using multiple WD stations, you can assign a number from 0 - 999 to each soldering station for identification purposes.

If the optional USB interface is used, several WD stations with the full range of functions, can be remote-controlled. For this purpose, each WD station requires a station code for unambiguous identification (ID number).

Use the **UP / DOWN** buttons to change the ID number. Switch to previous menu item with **I**. Switch to next menu item with **II**.

Button **III** is used to leave the menu 2 again (**EXIT**).



5. Potential balance

Due to the different circuits in the 3.5 mm switch jack socket (8), 4 variations are possible:

Hard-earthed: without plug
(delivery status)

Potential balance: with plug, balance line at middle
(Impedance 0 Ohm) contact

Potential-free: with plug

Soft-earthed: with plug and soldered resistor.
Earthing via selected resistance value.

6. Operating guidelines

During the first heating-up period, coat the selected tinnable soldering tip with solder. This removes oxide layers and conposes. The transition between heating element/sensor and the soldering tip must not be impaired by dirt, foreign bodies or damage because this would affect the accuracy of the temperature control.

Handling the soldering tips

- Select as low a working temperature as possible
- Select the largest possible soldering tip form for the application. Rule of thumb soldering tip: approx. as big as the soldering pad
- Guarantee a large-surface heat carriage between soldering tip and solder joint by properly tin-plating the soldering tip.
- Before long work breaks, switch the soldering system off, or use the Weller function for temperature decrease when not in use.
- Coat the tip before placing the soldering iron in the rest.
- Apply solder directly to the solder joint and not on the soldering tip.
- Use the corresponding tool to change the soldering tips.
- Never apply mechanical force to the soldering tip.

7. Accessories

005 29 178 99	Soldering iron set WSP 80
005 33 131 99	Soldering iron set MPR 80
005 33 113 99	Soldering iron set LR 82
005 33 155 99	Soldering iron set WMP
005 33 179 99	Desoldering set WTA 50
005 27 028 99	Pre-heating plate WHP 80
WPHT	Switching holder (WMP)
WPH80T	Switching holder (WSP 80)
005 31 185 99	USB Extension module

8. Scope of supply

WD1000

Control unit
Mains cable
Jack plug
Soldering iron
Safety rest
Operating Instructions
Safety Information

WD1

Control unit
Mains cable
Jack plug
Operating Instructions
Safety Information

Subject to technical alterations and amendments!