WD 1 / WD 1000

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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.

- Temperature setting: 1150 °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.

4. Special functions

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.

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.

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.

4.1.2 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 III.
4.1.3 Temperature Offset
The actual soldering tip temperature can be changed by 
±40°C/±72°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 sta-
tus 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. ±99 °C  
(±180 °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 °C to °F and vice versa.
Use the UP/DOWN buttons to switch between °C and °F.
Switch to previous menu item with I.
Switch to next menu item with II.

4.1.7 Interlock function "•••"
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 "•••" 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 "•••" symbol in the display is active.
Exit the menu while "OFF" appears in the display by pressing  
I or III 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.

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

UP button: Calibration point 100°C/212°F  
DOWN button: Calibration point 450°C/842°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.

4.2.1 Calibration function (Factory Calibration Check)  
Performing this function allows a check of the temperature  
accuracy of the soldering station and a readjustment of pos-
sible deviations.
To execute the calibration function, the soldering tip tempe-
nature must be measured. Any external temperature measur-
ing instrument can be used to do this.

4.2.2 Change Calibration  
Press the DOWN key  
Calibration at 100°C/212°F  
The station adjusts the temperature of the soldering pencil to  
100°C/212°F. Once the temperature becomes static (at  
which point the indicator flashes), the soldering tip tempera-
ture (external measuring device) is compared to that shown
1. If a temperature deviation is found, the UP/DOWN keys can be used to make adjustments. A maximum temperature adjustment of ±40°C/±72°F is possible. If the measured temperature matches that shown on the display, press the III key (CAL) to confirm by temperature deviation is reset to 0. This concludes the calibration at 100°C/212°F.

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

2. Press the UP key
Calibration at 450°C/842°F
The station adjusts the temperature to 450°C/842°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 ±40°C/±72°F is possible. If the measured temperature matches that shown on the display, press the III key (CAL) to confirm by temperature deviation is reset to 0.

This concludes the calibration at 450°C/842°F.

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

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

4. Operating guidelines
During the first heating-up period, coat the selected tinable 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. 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.

5. Potential balance
Due to the different circuits in the 3.5 mm switch jack socket (B), 4 variations are possible:

<table>
<thead>
<tr>
<th>Hard-earthed:</th>
<th>without plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>(delivery status)</td>
<td></td>
</tr>
<tr>
<td>Potential balance:</td>
<td>with plug, balance line at middle contact</td>
</tr>
<tr>
<td>(Impedance 0 Ohm)</td>
<td></td>
</tr>
<tr>
<td>Potential-free:</td>
<td>with plug</td>
</tr>
<tr>
<td>Soft-earthed:</td>
<td>with plug and soldered resistor Earthing via selected resistance value</td>
</tr>
</tbody>
</table>

6. 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
005 31 185 99 WPH
005 31 185 99 40