

## Weller WD1 Series Features and Settings

### 5.1 Temperature Setting

#### 5.1.1 Setting Temperature with UP/Down Scroll Keys

As a rule, the main display (1) shows the tip temperature ("Read") value. By depressing the **UP** or **DOWN** Scroll Keys (2 & 3), the display switches to the current



"Set" value. The temperature symbol flashes **°F** (or **°C**). The "Set" value can now be changed by tapping or holding in the **UP** or **DOWN** Scroll Key (2) (3). If the Scroll Key is held depressed, the "Set" value changes rapidly. Approximately 2 seconds after the button is released, the display switches automatically back to the "Read" value.

#### 5.1.2 Setting Temperature with the Radio Buttons I, II, III

The "Set" temperature can also be changed via the 3 Radio Buttons I, II, III.

Default settings:

- I 300 °F ( 150 °C )
- II 660 °F ( 350 °C )
- III 720 °F ( 380 °C )



By depressing a Radio Button, the pre-selected value for that button now becomes the "Set" temperature. The new value appears for approximately 2 seconds in the display and the temperature symbol flashes °F (or °C). The display then switches back automatically to the "Read" value.



### 5.1.3 Changing Preset Values of Radio Buttons I, II, III

The 3 Radio Buttons I, II, III can be preset with temperature values as desired.

Depress the **UP** or **DOWN** Scroll Key to set a desired temperature (see 5.1.1) in the large display. The °F (or °C) temperature symbol flashes.

Next, depress and hold the desired Radio Button I, II or III. While the button is depressed, the small display assigned to the Radio Button also flashes and, after 3 seconds, accepts the value of the large display. Release the Radio Button.

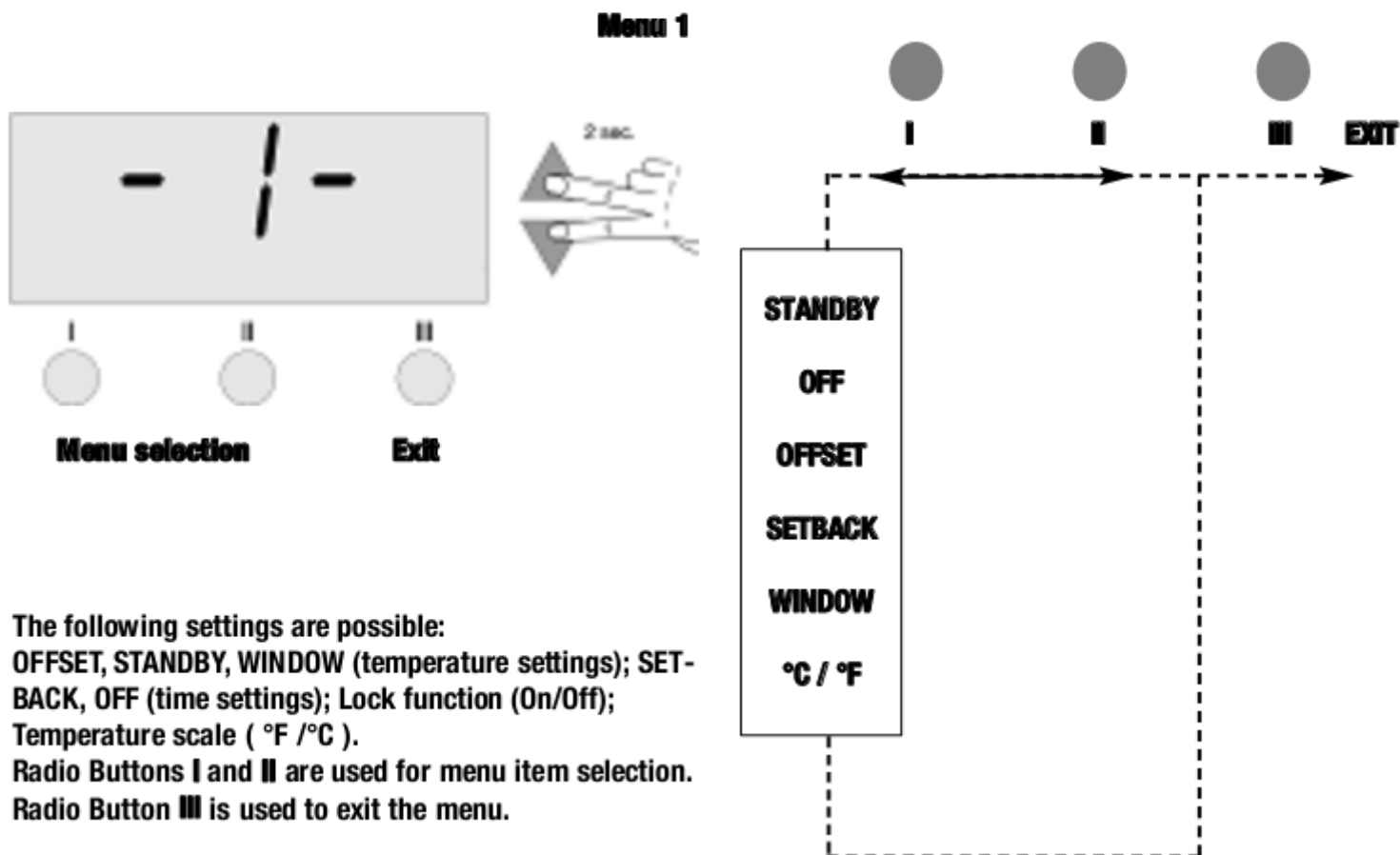


Setting a Radio Button to a low temperature gives you the option of manually and quickly decreasing temperature when the soldering iron is not being used.



## 6.1 Special Functions Menu 1

If the **UP** and **DOWN** Scroll Keys are depressed simultaneously, after approximately 2 seconds, the menu selection for the Special Functions is activated and **- I -** appears in the display. Release the Scroll Keys.



The following settings are possible:  
OFFSET, STANDBY, WINDOW (temperature settings); SETBACK, OFF (time settings); Lock function (On/Off); Temperature scale ( °F / °C ).  
Radio Buttons **I** and **II** are used for menu item selection.  
Radio Button **III** is used to exit the menu.

### Resetting the Station to Factory Settings:

Depress and hold Radio Button **III**. Then depress the **UP** and **DOWN** Scroll Keys at the same time. "**FSE**", "Factory Setting Enabled" appears in the display. The soldering station is now reset to its factory default settings.



### 6.1.1 Standby Temperature

When the Setback time has elapsed, the "Set" temperature is decreased automatically to the Standby value. The "Read" temperature is displayed (flashing) and "STANDBY" appears in the display. The Standby temperature can be set in the range ( 200 - 600°F/100 - 300°C ).

Adjust the Standby temperature with the **UP** or **DOWN** Scroll Keys.

Switch to previous menu item with Radio Button **I**.

Switch to next menu item with Radio Button **II**.



### 6.1.2 Auto Off Time ("OFF")

When the soldering tool is not in use, it is automatically switched off after the "OFF" time has elapsed. The Auto Off time can be set from 0 – 999 minutes. With a setting of "0 min", the Auto Off function is disabled. Auto Off is carried out independently of the Setback function. The "Read" temperature is displayed (flashing) and may be monitored as a decreasing heat indicator; "OFF" appears in the display. Below 122°F ( 50°C ), a flashing dash appears in the center of the display.



#### Standby Temperature

Allows selection of desired setback temperature, down to 200° F.



#### Auto-Off Time

Allows programming of the number of minutes of inactivity (1 – 999), before the station powers off automatically.



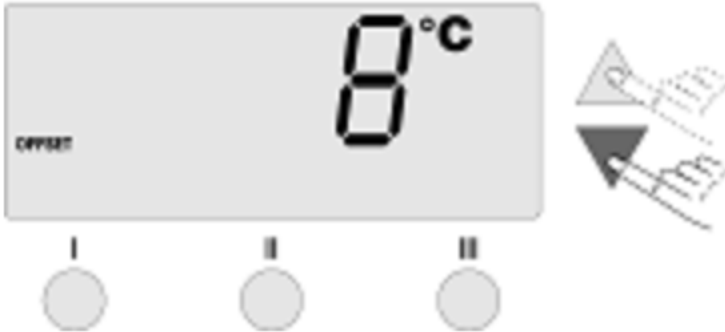
### 6.1.3 Temperature Offset

The actual soldering tip temperature can be changed  $\pm 72^{\circ}\text{F}/\pm 40^{\circ}\text{C}$  by the input of a temperature offset. The Offset function is used to match the station display to the tip temperature when measured with an external instrument.

Change the "Offset" value with the **UP** or **DOWN** Scroll Key.

Switch to previous menu item with Radio Button **I**.

Switch to next menu item with Radio Button **II**.



#### Temperature Offset

Allows the display temperature to be adjusted  $\pm 72^{\circ}\text{F}$  when working with higher mass tips, where the temperature reading can be affected by the mass of the tip.

### 6.1.4 Setback Time

If the soldering tool is not being used, the temperature is decreased automatically to Standby temperature (see 6.1.1) 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 "Read" temperature and "**STANDBY**" appears in the display. Depress the **UP** or **DOWN** Scroll Key to end "Setback" and return the station to the "Set" temperature.

Change the "Setback" time with the **UP** or **DOWN** Scroll Key.

Switch to previous menu item with Radio Button **I**.

Switch to next menu item with Radio Button **II**.



#### Setback Time

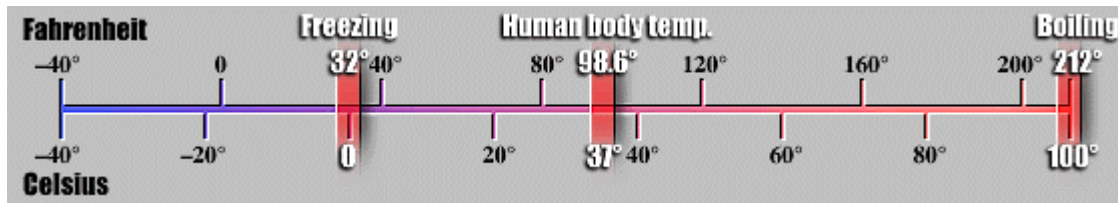
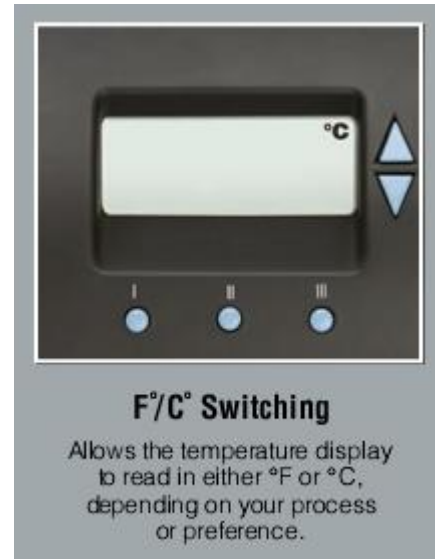
Allows programming of the number of minutes (1 – 99), before the temperature sets back to idle mode.

## 6.1.6 Switching Temperature Scales °F/°C

Use the UP or DOWN Scroll Key to switch between °F and °C and vice versa.

Switch to previous menu item with Radio Button I.

Switch to next menu item with Radio Button II.




Fahrenheit to Celsius:


$$^{\circ}\text{C} = (^{\circ}\text{F} - 32) / 1.8$$

94.0	34.4	194.0	90.0	294.0	145.6	394.0	201.1	494.0	256.7	594.0	312.2	694.0	367.8
95.0	35.0	195.0	90.6	295.0	146.1	395.0	201.7	495.0	257.2	595.0	312.8	695.0	368.3
96.0	35.6	196.0	91.1	296.0	146.7	396.0	202.2	496.0	257.8	596.0	313.3	696.0	368.9
97.0	36.1	197.0	91.7	297.0	147.2	397.0	202.8	497.0	258.3	597.0	313.8	697.0	369.4
98.0	36.7	198.0	92.2	298.0	147.8	398.0	203.3	498.0	258.9	598.0	314.4	698.0	370.0
99.0	37.2	199.0	92.8	299.0	148.3	399.0	203.9	499.0	259.4	599.0	315.0	699.0	370.6
100.0	37.8	200.0	93.3	300.0	148.9	400.0	204.4	500.0	260.0	600.0	315.6	700.0	371.1



### 6.1.7 Lock Function “”

The Lock Function locks the soldering station control so that no setting changes are possible. Radio Buttons I, II, and III remain operational in the lock mode. When the lock function is selected in the Special Functions menu, “OFF” and the flashing “” symbol appears in the menu display. If Radio Buttons I or II are depressed while “OFF” appears in the display, no code is saved.

The **UP** or **DOWN** Scroll Keys can be used to enter a 1, 2 or 3-digit Lock code. Confirm the code by depressing Radio Button III for 5 seconds. The station is now Locked and the “” symbol appears in the main display.

To unlock, activate the Lock Function in Special Functions menu 1. “ON” appears in the display. Enter the code and confirm by depressing Radio Button III. The station is now unlocked.

Switch to previous menu item with Radio Button I.  
Switch to next menu item with Radio Button II.



These are the basic functions that can be set on the WD Series. For further information consult the owner's manual.

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