

FX-888D settings and adjustments

The FX-888D has 4 Parameter settings (see section 6. Parameter Setting in the Instruction Manual). For reasons that only make sense to the engineer that programmed the software, the parameters are numbered 01, 03, 11, and 14.

The parameter settings are very rarely changed from the factory settings. If you change a parameter setting it would be even rarer to change it back. These are the core setting of the station and would not typically be adjusted.

The FX-888D has the following parameters.

Parameter name	Parameter No.	Value	Initial value
°C/F selection	01	°C / °F	°F
Low temperature error setting	03	54~270°F (30~150°C)	270°F
Setting mode selection	11	0 : The normal mode / 1 : The preset mode	0
The number of preset *		<input type="text" value="2P"/> (2 pcs) ~ <input type="text" value="5P"/> (5 pcs)	<input type="text" value="5P"/>
Password setting	14	0 : Open / 1 : Partial / 2 : Restricted	0
Temperature setting mode **		<input type="text" value="1 0"/> :○ / <input type="text" value="1 1"/> :×	<input type="text" value="1 1"/>
Preset selection mode **		<input type="text" value="2 0"/> :○ / <input type="text" value="2 1"/> :x	<input type="text" value="2 0"/>
Adjust mode **		<input type="text" value="3 0"/> :○ / <input type="text" value="3 1"/> :x	<input type="text" value="3 1"/>
Password ***		<input type="text" value="A b C d E F"/> Select three letters	-

*It is displayed only when "1:Preset mode" is selected in the setting mode.

**It is displayed only when "1:Custom" is selected in the password setting.

***It is displayed only when either "1:Custom" or "2:valid" is selected in the password setting.

Parameter 01: Allows you to display the temperature in Celsius or Fahrenheit. The station is factory set to display the temperature in Fahrenheit.

Parameter 03: Low temperature error setting allows you to set the station to display an error message if there is a drop in the tip temperature beyond the Low Temperature Alarm Setting. The station comes from the factory with a Low Temperature Alarm Setting of 270°F. In this case, if you were using the station at 750°F and the measured tip temperature dropped to 480°F (750-270), the display will flash an error. I recommend you leave the Low Temperature Alarm at the factory setting and watch the solder flow, which is a better indication of how the heat is transferring to the solder connection.

Parameter 11: Allows you to switch between "normal mode" and "preset mode" of temperature control. The station comes from the factory set to normal mode. Normal mode allows you to adjust the soldering station to any temperature between 120-899°F. The last set temperature is stored in memory so that whenever you turn on the station it will heat to the last temperature you were using. Preset mode allows you to "preset" from 2 to 5 temperatures. Preset mode is only useful if you constantly change between specific temperatures when soldering. It gives you a faster way to adjust between specific temperatures. Most operators would not need to use preset mode. If you change to preset mode you must also enter the number of preset channels (2-5) you will want to have. I recommend leaving the station in normal mode.

Parameter 14: Password setting allows you to enter a Password to restrict the ability of someone to adjust the station without a password. This feature is sometimes used by large assembly lines that want to control the soldering temperature process. They would enter a password and not give the password to the operator. The operator would be unable to change the temperature without the password. The password setting from the factory is Open, which means there is no password needed to adjust the

temperature. You can set a Password to "Partial" mode and then select if you want to control access to Temperature Setting Mode, Preset Selection Mode and/or Adjust Mode. If you select Restricted Mode then Temperature Setting Mode, Preset Selection Mode and Adjust Mode will all require a password. There are very few instances where it makes sense to change to either Partial or Restricted password setting. I would leave the station in Open Password mode.

To change a parameter you must first enter the parameter entering mode. Here is how you do it,

■ Parameter entering mode

1. Turn off the power switch.
2. Turn on the power switch while pressing the  button.
3. When the display shows , the station is in parameter entering mode.

Once you enter Parameter entering mode you can change any or all 4 parameters. You start with parameter 01.

After changing parameters, press and hold the  button down for at least two seconds until  is displayed.

At this time, you can switch between  and  by pressing the  button. Select  if you are finished making changes or  if you need to go back and make more changes. Press the  button to confirm your selection.

Changes will not be completed until  is displayed and you press the  button.

Please note that no changes will be made if you turn off the power while making changes.

● °C or °F temperature display selection

1. Either  or  will be displayed if you press the  button when  is displayed.
2.  and  will be switched alternately if you press the  button.
3. The display will return to  if you press the  button after selecting.

● Low temperature error setting

1. Press the  button to change the display to .
2. The low-limit temperature will be displayed if you press the  button. Enter the value in the same manner as setting the temperature in the normal mode [5. OPERATION ● The normal mode]
3. The display will return to  if you press the  button after setting.

● Setting mode selection

1. Press the  button to change the display to .
2. If you press the  button, the display will move to the setting mode selection screen. If you press the  button,  (The normal mode) and  (The preset mode) will be switched alternately.
3. The display will return to  if you press the  button after selecting.*

* If you select the preset mode, the display will move to the preset selection screen.

4. The number of active preset will be displayed. If you press the  button at 3.

(Example : If the number is three,  is displayed.)

5. Press the  button to change the value and select the number of active preset you required.

The unit will accept values from 2 through 5.

6. The display will return to  if you press the  button after selecting.

● Password setting

1. Press the  button to change the display to .

2. If you press the  button, the display will move to the password setting mode selection screen.

If you press the  button,  (Open),  (Partial) and  (Restricted) will be switched alternately.

3. If you press the  button after selecting, the display will return to . *1, 2

*1 The display will move to the following selection screen if you select  (Partial).

4. If you press the  button at 3, you will be asked whether or not the password function is needed when moving to the temperature setting mode.

5. Either  (without password) or  (with password) will be displayed if you press the  button.

6. If you press the  button after selecting, you will be asked whether or not the password function is needed when moving to the preset selection mode.

7. Either  (without password) or  (with password) will be displayed if you press the  button.

8. If you press the  button after selecting, you will be asked whether or not the password function is needed when moving to the adjust mode.

9. Either  (without password) or  (with password) will be displayed if you press the  button.

10. If you press the  button after selecting, the display will move to password setting screen.

*2 If you select  (Restricted), the display will move to the following password setting screen.

If you select  (Partial), the display will move to the following the password setting screen after selecting *1.

11. The hundreds digits in the display will begin to flash. It indicates that you can enter the value.

Press the  button to enter the letter you required.

12. The tens digits in the display will begin to flash if you press the  button after entering.

Use the same procedure to enter the letters for tens and units digit.

13. The display will return to  if you press the  button after entering the units digit.

As I mentioned previously, it is rare that you would change a parameter and if you do, even more rare that you would change it again. Adjusting the operating temperature is the most common adjustment you would make. Section 5. OPERATION describes changing the set temperature, starting on page 5. You would use this procedure in both/either Normal Mode or Preset Mode. If you are in preset mode, changing the set temperature only changes the temperature on the current preset “channel.” You would need to go to each preset to change each temperature.

● Changing the set temperature

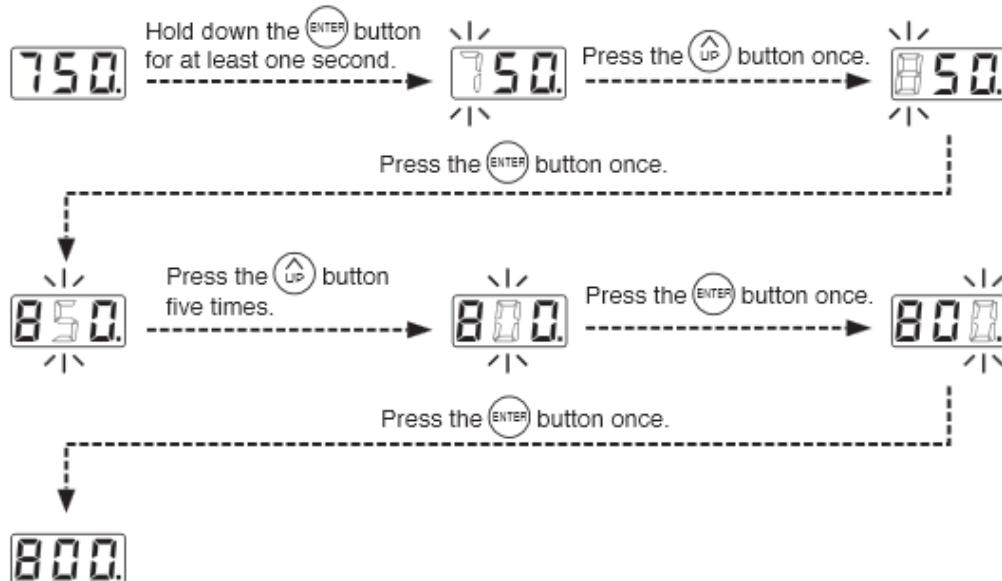
There are two ways to change the setting temperature : normal mode or preset mode.

The temperature setting range is from 120 to 899°F. (from 50 to 480°C)

By default, the temperature is set to 750°F. (399°C)

● The normal mode

Example : Changing from 750°F to 800°F



The desired temperature is saved to the system memory.
Heater control will begin after the new set temperature is displayed.

Temperature adjustment is NOT the same as changing the temperature. Think of temperature adjustment as offsetting or calibrating the temperature. You should only use this function if you have a soldering iron thermometer that you use to compare the actual (measured) tip temperature with the temperature display of the station. This function allows you to offset/calibrate the station to make up for any difference between measured and displayed temperature. The FX-888D is adjusted for accuracy at the factory and will not need additional adjustment unless you change the heating element. If you were to measure the tip temperature and found a difference greater than 27°F I would first recommend changing the tip before making a temperature adjustment.

● Performing the temperature adjustment

When replacing the iron, heater or tip, a temperature adjustment may be required.
Use Adjustment Mode to perform the temperature adjustment.

⚠ CAUTION

- Enter the observed value in the adjustment mode after the tip temperature stabilizes.
- The maximum single adjustment that can be made is $\pm 270^{\circ}\text{F}$ (150°C) relative to the set temperature.
If a larger adjustment is needed, make the first adjustment at the maximum value of 270°F (150°C), then repeat the adjustment process.

**Example : If the measured temperature is 760°F ,
and the set temperature is 800°F .**

1. Press and hold the  button down for at least two seconds.
 - The hundreds digits in the display will begin to flash when shifting to the adjustment mode. It indicates that you can enter the value.
2. Changing from  to 
 - The procedure for changing the value in adjustment mode is the same as setting the temperature in normal mode. Please refer to Section 5 - OPERATION.

NOTE :

During adjustment mode, the hundreds digit will accept values from 0 through 6 if the temperature is set to display in $^{\circ}\text{C}$, or the values 0 through 9 if the temperature is set to display in $^{\circ}\text{F}$.

3. Press the  button to exit the setting after changing the values.
 - The tip temperature will be adjusted accordingly.

* How to distinguish between Temperature Setting Mode and Adjustment Mode.

The display differs in the temperature setting and the adjustment mode.

In the Temperature Setting Mode



In the Adjustment Mode



Identification lamps are on in the adjustment mode.

⚠ CAUTION

Please be sure to confirm the status of the identification lamps so that you do not enter a value in the wrong mode.