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## Operating Instructions for the ESCR Device

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Upon connecting the device to power and turning on the power switch, the front panel of the device will light up, and the operating system will start.  
After the operating system is fully loaded and the system is ready for operation, the following screen will be displayed.



The displayed image consists of two control sections:

The right control section corresponds to the right tank of the device.

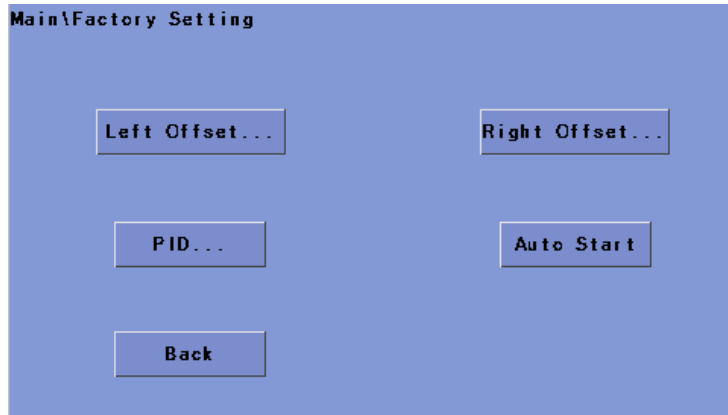
The left control section corresponds to the left tank of the device.

By touching the box above each section, the operator can adjust the working temperature of the respective tank. In this section, the actual temperature of the tank is shown in PV, and the set temperature by the operator is displayed in SV.

Depending on the lines and samples in use, the operator can enable or disable timers 1 to 4 in each section.

To begin heating the left or right tank, the operator can start the temperature controller by touching the Start button in the respective section.

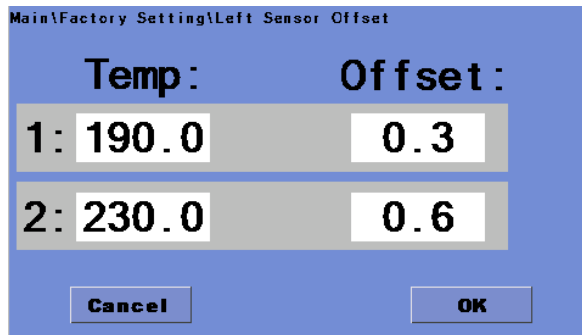
To make the device settings, you need to touch the **Settings icon** located at the top right corner of the screen.



The menu consists of 4 sections, including:

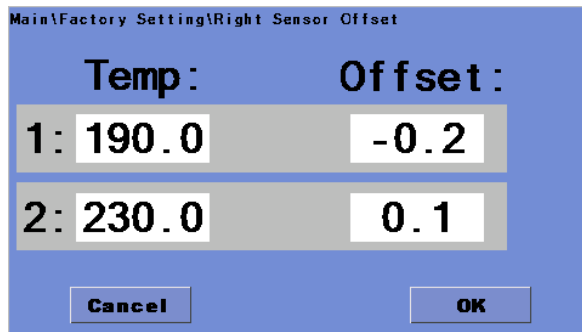
**1- Left Offset:**

In this menu, the operator or calibration company can compensate for the temperature difference displayed for the left tanks by applying an offset at two different temperatures to match the actual value.

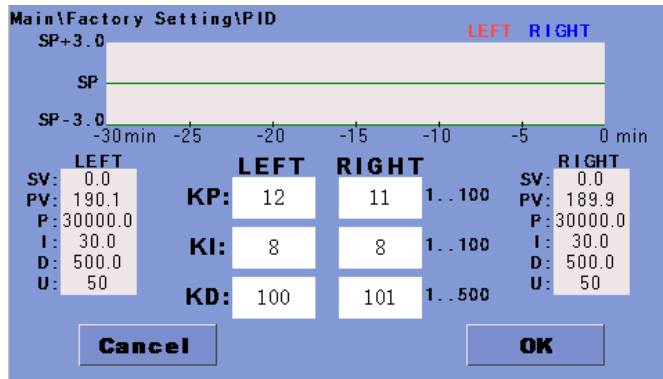


**2- Right Offset:**

In this menu, the operator or calibration company can compensate for the temperature difference displayed for the right tanks by applying an offset at two different temperatures to match the actual value.



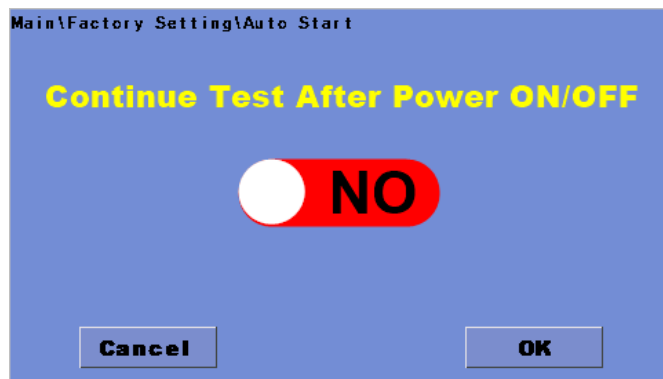
: PID -\



In this menu, the **PID coefficients** and the **temperature controller** for the tanks are adjusted. These coefficients are set by the manufacturer based on the device's structure, and changing them may cause **severe temperature fluctuations** in the tanks.

### 3- Auto Start:

In this menu, the operator can specify whether the device should **continue the test** after a shutdown (such as a potential power outage) or not.



If this option is enabled, after the device is turned off and on again, if any of the lines were previously started, the test will automatically restart, and the previous test will continue. If this option is not enabled, after the power is restored, the test will not start automatically, and the operator will need to manually restart the test to continue.

### Operating Procedure with the Device:

1. Prepare the sample using the **punching and notch-cutting machines**.
  2. Bend the sample so that the **notched part is positioned upwards**.
  3. Place the prepared samples in the **brass molds**.
  4. The samples must be placed inside **glass tubes containing Aggipal**.
  5. Then, place the glass tubes containing Aggipal in the appropriate rack to ensure they stay in place during the test.
- Fill the device's chamber with **thermal oil** and start the device.  
The required time to complete the test is **1000 hours**.