# FT-112 Quick Guide - 2nd Scale

**Important note:**
This Quick Guide does NOT replace the technical manual but merely serves as a guide for commissioning of the weighing terminal type FT-112.

1. **If not already done the 2nd scale board must be installed**
   Refer to Technical Manual, chapter 4.4.16

2. **Working with two scales and summing scale**
   Refer to Technical Manual, chapter 7

To be able to switch between the scales one of the function keys (e.g. **Δ Key**) must be defined. Enter the programming menu as shown in the following table (Refer to Technical Manual, chapter 6.1).

<table>
<thead>
<tr>
<th>Display</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>[123.456 kg]</td>
<td>Press <strong>Enter</strong> key until [PASSWORD : ] prompt appears</td>
</tr>
<tr>
<td>[PASSWORD]</td>
<td>Enter your 4 digit passport by pressing keys sequentially. (Default is 1111)</td>
</tr>
<tr>
<td>[PASSWORD ****]</td>
<td>Press <strong>Enter</strong> key.</td>
</tr>
<tr>
<td>[242 Δ KEY ]</td>
<td>Increase the main block by pressing <strong>↑</strong>, <strong>↓</strong>, <strong>←</strong>, <strong>→</strong> keys and confirm with <strong>Enter</strong> key. The sub-block appears. Proceed in the same way with the sub-block. After reaching the required block press <strong>Enter</strong> key.</td>
</tr>
<tr>
<td>[242 Δ KEY SCL]</td>
<td>Press <strong>→</strong> key until SCL (scale) appears and confirm with <strong>Enter</strong> key.</td>
</tr>
<tr>
<td>[5– SCALE]</td>
<td>Change the parameter block by pressing <strong>↓</strong>, <strong>↑</strong>, and <strong>→</strong> keys. After reaching the block press <strong>Enter</strong> key.</td>
</tr>
<tr>
<td>[SCALE SELECT 1]</td>
<td>Press <strong>→</strong> key and select 2 for 2nd scale or SUM for summing scale. Confirm with <strong>Enter</strong> key.</td>
</tr>
</tbody>
</table>

Connect the load cells
(Refer to Technical Manual, chapter 4.4).
3. Scale definition

Every scale must be defined separately with the parameter 523. The current selected scale is displayed in the bottom left corner.

Select parameter [523] (Max / d) and press Enter key.

[CAP] Define the scale capacity by pressing the numerical keys and confirm with Enter key.

[d] Select the scale resolution by pressing the Enter key and confirm with Enter key.

2.2 Calibration

2.2.1 Calibration with test weights

Refer to Technical Manual, chapter 6.5

- Press 2 x Enter key until parameter-block [6 - Calb / Adjust] appears.
- Select parameter 611.
- Press Enter key to start the calibration, the message „Unload the Pan“ appears.
- Unload the scale and confirm with Enter key.
- Place the suggested weight on the scale or change it by the numerical keys.
- After the successful calibration, the next parameter appears on the display.
- Press Esc or Enter sequentially until the message [SAVE] appears to leave the menu.

The calibration with test weights has been successfully completed - the scale is now ready to use.

For 2nd scale calibration proceed as described above.

2.2.2 Electronic calibration (eCal)

Note: Define the scale capacity and resolution before starting the eCal (Refer to chapter 3.1)!

Enter the parameter [613] and confirm with Enter key.

[Total LC Capacity] Enter total load cell capacity via numerical keys. Example: If the scale has 4 load cells with 1000kg => Enter: 4000

[Average LC OUT] Enter load cell output in mV/V via numerical keys. The rated output is defined on Final Data Summary, which is attached to every load cell.

Example for a scale with 4 load cells: WZ1 = 2,0010; WZ2 = 1,9998; WZ3 = 1,9986; WZ4 = 2,0002 => (2,0010 + 1,9998 + 1,9986 + 2,0002) / 4 => Enter: 19999 (average value of all load cell)

[Zero Adjustment] Confirm with Enter key if the scale is empty to do the zero calibration.

After the successful calibration, the next parameter appears on the display.

Press Esc or Enter until the message [SAVE] appears to leave the menu.

The electronic calibration eCal has been successfully completed - the scale is now ready to use!