FT-112 Quick Guide-Calibration

Important note:
This Quick Guide does <u>NOT</u> replace the technical manual but merely serves as a guide for commissioning of the weighing terminal type FT-112.
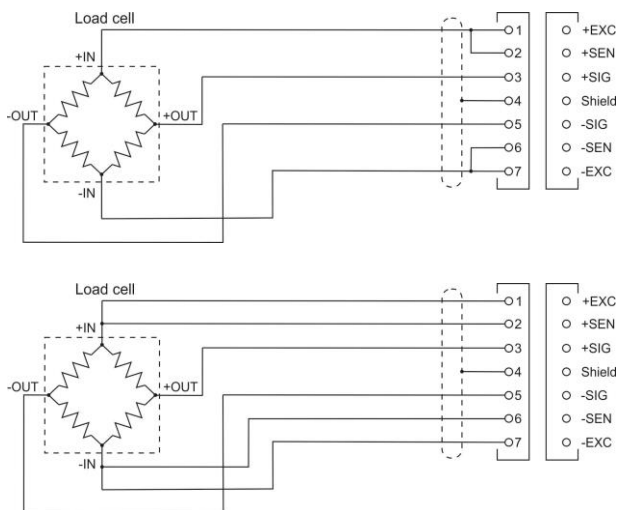
1. **Mechanical installation must be carried out in accordance with the requirements**
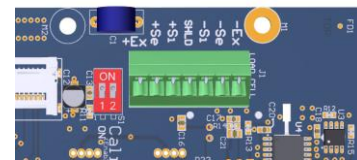   Refer to Technical Manual, chapter 4.3

2. **Electrical Connection**
   Refer to Technical Manual, chapter 4.4

   Load cell connection:

4 -wire load cell connection

6- wire load cell connection

3. **Programming and calibration**
   Refer to Technical Manual, chapter 6.1.

Display	Operation
[123.456 kg]	Press [Enter] key until [**PASSWORD :**] prompt appears
[PASSWORD]	Enter your 4 digit passport by pressing keys sequentially. (Default is 1111)
[PASSWORD ****]	Press [Enter] key.
[1—INTERFACE]	You entered to the programming main menu and the first main block [1—INTERFACE] prompt appears.

Change the parameter blocks by pressing [↑] and [↓] keys. After reaching the desired block press [Enter] key.

3.1 Scale definition

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 ⟳ key and confirm with Enter↵ key

3.2 Calibration

3.2.1 Calibration with test weights

Refer to Technical Manual, chapter 6.5

- Press 2 x ⬑ 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 ⬑ until the message **[SAVE]** appears to leave the menu. Confirm with Enter↵ key

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

3.2.2 Electronic calibration (eCal)

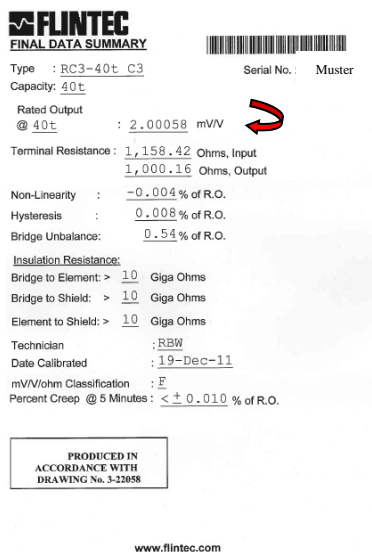*Note: Define the scale capacity and resolution before starting the eCal (Refer to chapter 3.1)!*


Fig.: Final Data summary (attached to every load cell)

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 laod 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: 1,9999 (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 ⬑ until the message **[SAVE]** appears to leave the menu. Confirm with Enter↵ key

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