

# FT-111 Quick Guide-Calibration



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-111.

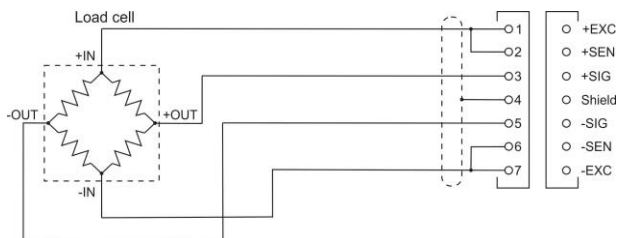
## 1. Mechanical installation must be carried out in accordance with the requirements

Refer to Technical Manual, chapter 4.3

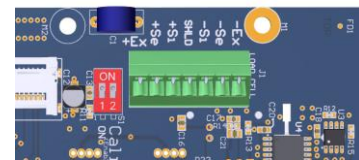
## 2. Electrical Connection

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  key until [ PASSWORD : ] prompt appears
[PASSWORD]	Press  +  +  +  keys sequentiell
[PASSWORD ****]	Press  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 key.

## 3.1 Scale definition

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

[CAP] Define the scale capacity by pressing the keys ,  and . Confirm with  key.







[d] Select the scale resolution by pressing the  key and confirm with  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  key to start the calibration, the message „Unload the Pan“ appears
- Unload the scale and confirm with  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  or  until the message [SAVE] appears to leave the menu. Confirm with  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)!*

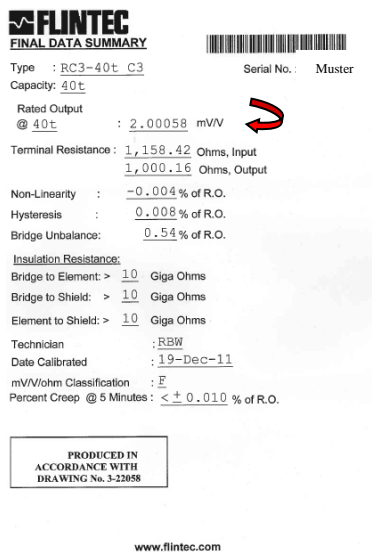







Fig.: Final Data summary  
(attached to every load cell)

Enter the parameter [613] and confirm with  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: 1,9999 (average value of all load cell)

**[Zero Adjustment]** Confirm with  key if the scale is empty to do the zero calibration  
After the successful calibration, the next parameter appears on the display  
Press  or  until the message [SAVE] appears to leave the menu.  
Confirm with  key

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