


METTLER TOLEDO

CUB

Programming and Calibration

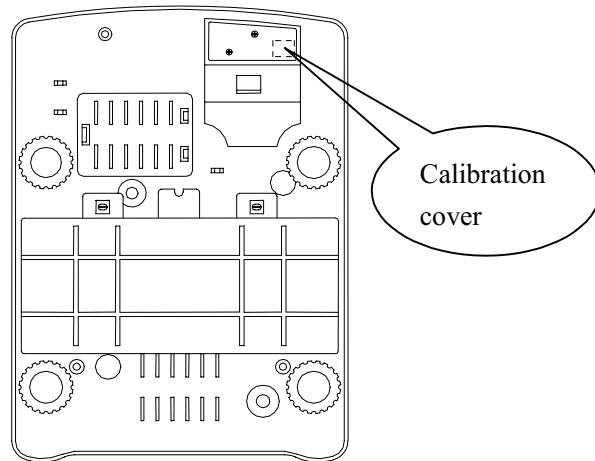
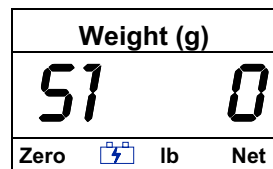
This manual discusses basic features of program blocks and the specific parameters and how to configure each program block. There are two ways (Service Mode & Master Mode) to access the program blocks and calibration.

Programming

1. Service mode

1.1 Enter service mode

Short the switch on the main PCB with a metal rod through a calibration hole after remove the calibration cover, then “S 1” will be displayed. The following section will show all softswitches and their functions. Only in this mode, the scale can be calibrated.



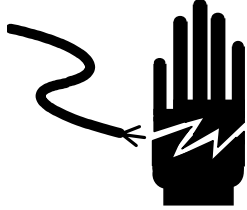

1.2 Parameters in Service Mode

Softswitch	Description	Choice
S1	Expanded Weight Display	0: Weight is displayed in normal display increments.
		1: Weight is displayed in the way of individual quantity.(The Maximum individual quantity is 30000)
S2	Weight Unit for Calibration	0: kg
		1: lb
S3	Calibration	0: Not access to calibration setting mode
		1: Access to calibration setting mode
S4	Charge Cursor	0: Charge cursor can not be lit
		1: Charge cursor is lit when the battery is being charged.
E	End	0: Abort all modification
		1: Save all modification

1.3 Function of the keys

Toggle Key	[TARE]	Used to select softswitch settings.
Accept Key	[ZERO/ON/OFF]	Used to accept what you have selected, and advance one softswitch at a time.

1.4 Calibration


	 WARNING
	<p>ONLY PERMIT QUALIFIED PERSONNEL TO SERVICE THIS EQUIPMENT. EXERCISE CARE WHEN MAKING CHECKS, TESTS AND ADJUSTMENTS THAT MUST BE MADE WITH POWER ON. FAILING TO OBSERVE THESE PRECAUTIONS CAN RESULT IN BODILY HARM.</p>

The procedure to calibrate this scale is as follows:

- 1: Access to service mode;
- 2: Select parameter “1” in softswitch “S 3”, then press key [ON/OFF/ZERO];
- 3: Follow in the following 3 steps


Step 1: Select Capacity

The scale displays the capacity as follows:

Weight (g)			
75			
Zero		lb	Net

Press [TARE] key to select the required capacity. Press [ZERO/ON/OFF] key to step forward. Available capacities are 1.5kg, 3kg, 7.5kg or 15kg.


Step 2: Clear the Platter and Initiate a Zero Reading

Weight (g)			
L			0
Zero		lb	Net

Empty the platter and then press [ZERO/ON/OFF] key.

The scale will count down from 5 to 0 while the zero reading is being taken. If motion is detected, the count resets to 5, then the scale will step forward to the next softswitch.

Step 3: Add the Test Weight to the Platter

Weight (g)			
H			0
Zero		lb	Net


Capacity	1.5	3	7.5	15
Weight Required(kg)	1	2	5	10

Refer to above chart and add the weight depending the capacity, then press [ZERO/ON/OFF] KEY. The scale will count down from 5 to 0 while the zero reading is being taken. If motion is detected,

the count resets to 5, then the scale will step forward to the next softswitch.

1.5 Exit service mode

The last step of the configuration display as follow:


Weight (g)			
E		0	
Zero		lb	Net

There are two choice, 0 and 1, 0 means aborting all modification, 1 means saving all modification. Press [TARE] key to choose what you want, then press [ZERO/ON/OFF] key to return the scale to the weighing mode.

2. Master mode

2.1 Enter master mode

This mode allows an operator to change certain softswitches directly from the keyboard. In weigh mode, press and hold [TARE] key until “F 1” is displayed, it means scale accesses to the master mode. The following section will show the detail.

Weight (g)			
F1		0	
Zero		lb	Net

During the setup procedure, the scale is configured for your specific needs with a special interactive setup procedure. In order to access the various prompts, you must utilize the following keys during the scale setup mode.

2.2 Function of the keys

Toggle Key	[TARE]	Used to select softswitch settings.
Accept Key	[ZERO/ON/OF]	Used to accept what you have selected, and advance one softswitch at a time.


2.3 Parameters in Master Mode

Softswitch	Description	Choice	Default
F1	Displayed Resolution	0: 1/1500, dual range	0
		1: 1/3000, dual range	
F2	Displayed Weight Unit	0: g	0
		1: kg (not used)	
		2: lb	
F3	Turn Off Automatically	0: Disable	0
		1: Turn off 30 minutes later if no weigh changes and on key is pressed.	

F4	Brightness Adjustment (There are six levels)	0: Brightness is highest	0
		↓ 5: Brightness is lowest	
		1: Save all modification	
E	End	0: Abort all modification	0
		1: Save all modification	

2.4 Exit master mode

The last step of the configuration display as follow:

Weight (g)			
E		0	
Zero		lb	Net

There are two choice, 0 and 1, 0 means aborting all modification, 1 means saving all modification. Press [TARE] key to choose what you want, then press [ZERO/ON/OFF] key to return the scale to the weighing mode.