Counting Q1-C Service Manual

Function Key: OFF Press and hold the OFF key and the weight window will display "oFF" for 2 seconds then the scale will turn off automatically ON : Press the ON key to turn on the scale. The scale will start self-adjusting sequence then will stabilize in 0 0 ~ 9 : Numeric keys from 0~9 . : Piece weight works as point for cents CE : Clear Entry key: To clear value UNITS : UNITS: To select desired weighing unit ZERO : To reset the weight to 0, but the displayed weight value has to be less than $\pm 2\%$ of maximum capacity

TARE :

Tare : To subtract the container weight. Maximum tare = full capacity

Preset Tare : press the [Tare] key when do not place any object onto the pan, Use

 $0\sim 9$ number keys to key-in the desired Preset Tare weight value , press the [Tare] key

to confirm

Clear Preset Tare : press the **[**Tare**]** key to clear the Preset Tare when do not place

any object onto the pan

Sample :

Use $0 \sim 9$ number keys to key in the desired Sample quantity when weight window

displays weight, then press the [sample] key, piece weight window displays pieces,

total count window displays pieces.

- When the weight of the sample is less than 20 times the division, the '-S' indication will shine.
- When the weight of the sample is less than 0.2 times the division, the '-W' indication will shine.

Count :

piece weight setup: When place object onto the pan , use 0~9 number key and decimal

[.] key , input piece weight , then press [count] key , weight window displays total weight , piece weight window display displays piece weight , total count window displays the

Count Alarm :

press the **[**Count Alarm**]** key When total count window displays pieces, when the number exceeds this value, piece weight window display displays --qui--, and the buzzer start to alarm ;

Clear count alarm : press and hold the 【Count Alarm】 key , clear 【Count Alarm】 when buzzer beeps twice。 For example : weight window displays : 10.000Kg , piece weight displays : 100g , total count window displays : 100 , after press the 【Count Alarm】 key , weighing again , if piece of the total count over 100, the buzzer will alarm。 Set point will auto cancel when turn off the scale.

M+:

total accumulated weight and total count, the max accumulation count can accumulated 99 times.

Accumulation condition can auto setup , See UF-5 function specification

MR:

press the MR key can display total accumulation count ,total accumulated weight and total count.

Clear accumulation : press and hold the [MR] key until buzzer beeps twice, then clear accumulation

Error Message

Weight window will show :	Err n	weight unstable
Weight window will show :	hhhhh	weight overload
Total count window will show	w: hhhhh	pieces over display range

Functions Setup

Four functions setup sections:

Approval Calibrations and Functions Setup (Lock section) LF – 1,2,3,7

Standard Functions Setup UF – 1 ~ 8

Standard Calibrations ECF – 1 ~ 3

Weighing Units Selection (Not available for only kg unit and only lb unit countries)

Standard Calibration:
Press the Zero key and the $M+$ key to start Standard Calibrations
ECF-1 Weight Calibration (Zero and Span)
ECF-2 Zero Calibration
ECF-3 SPAN Calibration
$M+$: Enter (Confirmation) $0 \sim 9$: Numeric numbers
ZERO : Move to left CE : Clear entry or exit
TARE : Move to right

Weight window



ECF-2	Press the $M+$ key to start (Press the CE key to exit menu and
	back to weighing mode)
◀ ↑↓ ►	
ECF-3	P Press the $M+$ key to start (Press the CE key to exit menu
	and back to weighing mode)







weight whilew	(Total Count window displays internal value)
ECF-3	Press the $M+$ key to start (Press the CE key to exit menu and
	back to weighing mode)
$\downarrow \downarrow$	
6000.0 g	Use 0~9 keys to enter the weight to be calibrated. Place the
	required weight mass onto the scale (Press the $\overline{\text{CE}}$ key to
	terminate the calibration back to ECF-3)
↓ ↓	Press the $M+$ key to calibrate the scale (Press the CE to

	terminate the calibration back to ECF-3)
6000.0 g	Calibration procedure completed and the scale will return
	back to weighing mode automatically

Standard Functions Setup:

Press the	TARE and the $M+$ keys in weighing mode to start Standard Functions
Setup	
UF-1	Internal Value/Display Battery Voltage
UF-2	Piece Weight Auto-average
UF-3	Auto Power-off
UF-4	Backlight
UF-5	Accumulation
UF-6	RS232 Output
UF-7	ADC Update Rate
UF-8	Display Condition at Zero
Key func	tion:
M+ :	Enter (Confirmation) $0 \sim 9$: Numeric numbers
ZERO	: Move to left CE : Clear entry or exit
TARE	: Move to right
Weight wi	ndow

UF-1

Press the M+ key to start (Press the CE key to exit menu and







Press the M+ key to start (Press the CE key to exit menu and back to weighing mode)

Use 0 and 1 keys to enable or disable auto-average function. Press the M+ key to confirm

Press the \overline{CE} key to return back to UF-2

UF-3 Auto Power-off :

AoFF 00 Auto Power-off disable

AoFF 01 The scale turns off automatically in 1 minute when the scale is not in

operation and weight at 0

AoFF 02 The scale turns off automatically in 2 minutes when the scale is not in operation and weight at 0

AoFF 99 The scale turns off automatically in 99 minutes when the scale is not in operation and weight at 0

★ Factory default: AoFF 00 (Auto Power-off disable)

Weight window



Press the M+ key to start (Press the CE key to exit menu and back to weighing mode)



Use 0~9 keys to enter auto power-off time. Press the M+ key



UF-5 Accu	mulation :
ACCU <u>0</u> 0	
AB	
A :	0 Stable required
	1 Stable not required
B :	0 The weight has to return to zero to accept next accumulation
	1 The weight does not have to return to zero to accept next
accumulatio	on
	2 No tare weight to accept next accumulation
ℜ Factory	default: ACCU00 (Stable required and the weight has to return to zero)
Weight wir	ndow
UF-5	Press the $M+$ key to start (Press the CE key to exit menu and
	back to weighing mode)
\downarrow	
ACCU	00 Use 0~2 keys to select accumulation conditions. Press the



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Weight window



UF-7 ADC Update Rate :

SPEEd	0	Low speed 7.5 hz
SPEEd	1	Standard speed 15 hz
SPEEd	2	High speed 30 hz

★ Factory default: SPEEd 0 (Low speed 7.5hz)

Weight window



UF-8 Display Condition at Zero :

- ZP 0 Off
- ZP 1 One division not to display at zero
- ZP2Two division not to display at zero
- ZP 3 Three division not to display at zero
- ZP4Four division not to display at zero
- ZP 5 Five division not to display at zero
- X Factory default: ZP 1 (One division not to display at zero)

Weight window



Press the M+ key to start (Press the CE key to exit menu and back to weighing mode)

Use $0 \sim 5$ keys to enter condition at zero. Press the M+ key to confirm

Press the CE key to return back to UF-8

Approval Calibrations and Functions Setup (Lock section) :

Turn on the scale and press and hold ZERO key, release both keys after

countdown sequence is completed

LF 1 Weight Calibration

LF 2	Spec Calibration	
LF 3	Reserve	
LF 6	Approval Conformity	
LF 7	G Value	
X CA	AL switch has to be ON	
💥 Pass	ssword required when CAL switch is O	FF
Key fi	function:	
M+	: Enter (Confirmation) $0 \sim$	9 : Numeric numbers
ZERO	O : Move to left C	E : Clear entry or exit
TARE	E : Move to right	NITS : Change calibration
		weighing units



LF 1 Weight Calibration :

Calibration can be done with any weight, but the weight should not be less than 1/100 of the max. capacity and not to exceed the max. capacity

X The scale will display the last saved setup. If LF 2 spec calibration has been reset, max. calibration capacity will be displayed



LF 2

Weight window

000000 kg Enter the maximum capacity. Use the UNITS key to select

calibration weighing unit. Available units are kg, g

Piece Weight

window

dp0 kg Enter the position of the decimal point. Use the UNITS key to select calibration weighing unit as needed. The position of the decimal point can be from 0 to 4

Total Count

window

Enter division 1,2 or 5

- * The UNITS key can be used to select calibration weighing unit when the cursor is at weight window
- * The UNITS key can be used to select calibration weighing unit when the cursor is at piece weight or total count windows
- X If Spec Calibration has been done previously, all previous input data will be

displayed	
X Proceed with W	Yeight Calibration after LF 2 Spec Calibration
Weight window	
LF 2	Press the $M+$ key to start (Press the CE key to exit menu and
	the scale will restart automatically)
\downarrow \downarrow	
Weight window	
<u>0</u> 60000 g	Use ZERO TARE and 0~9 keys to enter the maximum
	capacity of the scale
Piece Weight	Use the UNITS key to select calibration weighing unit (Press
window	the $\overline{\text{CE}}$ key to terminate the calibration back to LF 2)
dp <u>1</u>	Use 0~4 keys to enter the position of the decimal point
Total Count	Use the UNITS key to select calibration weighing unit (Press
window	the $\overline{\text{CE}}$ key to terminate the calibration back to LF 2)
div <u>2</u>	Use 1,2,5 keys to enter division 1,2 or 5
\downarrow \downarrow	Press the $M+$ key to confirm setup
Weight window	
LF 2	Use ZERO TARE and M+ keys to select other calibrations
	(Press the \overline{CE} key to exit menu and the scale will restart
	automatically)

LF 6 Approval Conformity:

nonE Non-approval version; Single interval;Initial Zero not restricted, Standard calibration allowed

oiML EC approval;Dual-range; Initial Zero FULL SCALE ±10%, Manual Zero FULL SCALE ±2%, No standard calibration allowed

✗ Factory default: nonE



	\downarrow	¢
LF	6	

Use **▲** and then **4** key to continue with other setups or press the ESC key to exit menu and the scale will restart automatically

LF7 G Value :

Sender G value: Set it before Weight Calibration
Recipient G value: Set it after Weight Calibration
The G value will be denied when the value is greater than 9.83217 (Polar G value)
or less than 9.78031 (Equator G value)
※ Factory default: 9.79423

Weight window

