

VETEK HL318 Plus SSC LCD Display Weight Indicator Instruction Manual



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MANUAL_WB_EPWN_ENG_V1.04

1.0 INTRODUCTION

1.1 Technical parameters

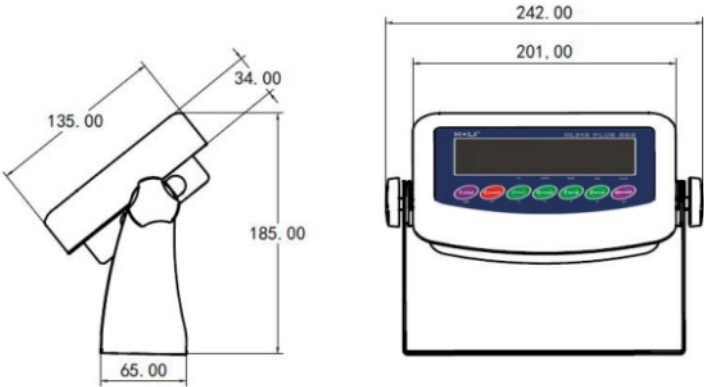
- 6-digit 1.6-inch LCD, various indicating lamps, long service life and good shock resistance
- 7 buttons, simple operation
- Protection level: IP5x
- Excitation voltage: +5VDC
- Load capacity of sensor: at most four 350Ω simulation sensors
- Input signal range at null point: 0~5mV
- Input signal range at full scale: 1~10 mV
- Inner resolution: 1 million
- Display division: 1000~30000
- A/D sampling rate: 120times/sec
- Power supply mode
 - Battery: 7.4V/4AH lithium battery
 - Adaptor: input voltage 100-240VAC; output voltage 8.4V/1.2A; frequency: 50-60Hz
- RS232
- Working temperature: -10°C-40°C, relative humidity: below 85 %
- Storage temperature: -20°C-60°C, relative humidity: below 85 %

1.2 Main Functions

- Basic functions: zero and tare

- Totalization, counting
- Auto power-save
- Parameter redundancy backup
- Real-time clock
- Auto power-off

1.3 Dimension



1.4 Model

HL318 Plus SSC

2.0 Interface

2.1 Power supply

	1Pin(inner core): DC+ 2Pin(outer core): DC-
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2.2 RS232

	1Pin: TXD 2Pin: RXD 3Pin: GND
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2.3 Load cell

	1Pin: +V 2Pin: +SN 3Pin: +S 4Pin: 5Pin: -S 6Pin: -V 7Pin: -SN
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3.0 Operation

3.1 Indicating Lamps

Sig n	Meaning	Specification
	Dynamic/static	When the scale is dynamic the lamp is on; otherwise, the lamp is off.
	Zero-center	When the absolute weight value is less than $\pm d/4$ the lamp is on; otherwise, the lamp is off.
Net	Gross/net weight	The lamp is on at net weight and off at gross weight.
kg	Weight unit	The lamp indicates the weight unit in use.
Total	Totalization	When the totalization function is in use the lamp is on.

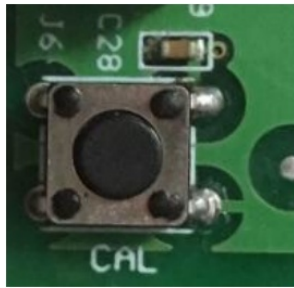
3.2 Buttons

Button	Name	Normal	Setting
	TOTAL	Totalization function in use Short press: add weights to total Long press: check/clear	None
	COUNT	Counting function in use Short press: switch between quantity and weight Long press: no definition	Return/exit
	PRINT	Short press: print	Move cursor to left
	GROSS	At gross weight: no definition At net weight: add skin weight to net weight (net weight—>gross weight)	Move cursor to right
	TARE	Remove skin weight (gross weight —> net weight)	Decrease
	ZERO	Zeroing	Increase
	ON/OFF	Power on/off	Confirm

4.0 Setting

4.1 Setting Entry

Normally press CAL until **【SEtUP】** shows. Press ON/OFF to enter into the menu setting interface to set parameters from F1~F5. Normally, press GROSS until **【SEtUP】** shows. Press ON/OFF to enter into the menu setting interface to set parameters from F2~F5. Below shows where the CAL button is.



Open the back cover →

4.2 Detailed Parameter Setting

F1 Scale Parameter Setting

F1.1 Capacity

Selectable parameters 3~200000 default: 6

F1.2 Decimal

Selectable parameters: 0——no decimal

1——1 decimal

2——2 decimals

3——3 decimals (default)

4——4 decimals

F1.3 Division

Selectable parameters: 1 (default), 2, 5, 10, 20, 50

Note: when F1.2, F1.3 or F1.4 is being set, division value should not be beyond 10000.

F1.4 Zero Calibration

[E.5CL] remove weights off scale and press ON/OFF . The indicator shows **[10 CAL]** and it decreases to **[00 CAL]**. Finally, **[End]** appears for one second and zero calibration ends.

F1.5 Load Calibration

[LOAD] add weights

Add weights to scale and make sure: full capacity *50% ≤ weights ≤ full capacity. Press ON/OFF . **[000000]** Enter the same value as the weights. Wait until the scale is stable and press ON/OFF . The indicator shows **[10 CAL]** and it decreases to **[00 CAL]**.

Finally, **[End]** appears for one second and load calibration ends.

F1.6 Auto zero-tracking rate

Selectable parameters: OFF, 0.5d (default)

At net weight status, zero-tracking is ineffective.

F1.7 Auto zeroing range at power-on

Selectable parameters: OFF (default), ±2 %, ±10 %

F1.8 Zeroing range by button

Selectable parameters: OFF (default), ±2 %

F1.9 Digital filter

Selectable parameters: 0~9, default: 5

F1.10 Scale function setting

Selectable parameters: 0——Totalization (default)

1——Counting

F 1.11 Restoring factory default

Selectable parameters: 0——No restore

1——Restore parameters from F1 to F4 while scale parameters unaffected

F 2 Applicable Parameter Setting

F 2.1 Sampling method

Selectable parameters: 0——weight on scale sampling (default)

1——manual input

F 3 Indicator Parameter Setting

F 3.1 Date format setting

Selectable parameters: 0——year.month.day (default)

1——month.day.year

2——day.month.year

F 3.2 Date setting (see F 3.1)

F 3.3 Time setting (format: hour.minute.second)

F 3.4 Overtime backlight shutdown time setting

Selectable parameters: 0~999 second (default: 0)

If 0 is set, this function is shutdown.

F 3.6 Auto power-off time setting

Selectable parameters: 0~60min (default: 0)

If 0 is set, this function is shutdown.

F 4 Serial Communication

F 4.1 Method

Selectable parameters 0——no output (default)

1——serial output (only when the scale is stable)

2——printing output (see Appendix III)

F4.2 Data and verification setting

Selectable parameters: 8_N_1 ——8 digits, no verification (default)

7_E_1——7 digits, odd verification

7_O_1 ——7 digits, even verification

8_E_1 ——8 digits, odd verification

8_O_1——8 digits, even verification

F 4.3 Baud rate

Selectable parameters: 2400, 4800, 9600 (default), 19200

F 4.4 New line

Selectable parameters: 0~9 (default: 0)

F 5 Maintenance and Service

F 5.1 Button test

When the indicator displays **【PRESS】**, press ON/OFF ZERO TARE GROSS PRINT and COUNT in order and the indicator displays “on.off” “Zero” “Tare” “Gross” “Print” and “Count”. Press TOTAL to exit.

F 5.2 Display test

The indicator conducts an auto-inspection to make sure there is no lack of strokes. Press TOTAL or ON/OFF to exit.

F 5.3 Inner code

The indicator shows the after-filtering inner code. Press COUNT or ON/OFF to exit.

5.0 Functions

5.1 Totalization

F 1.10=0

Operation: Normally add weights to scale and press TOTAL . The screen shows “Add-” and returns to the main weighing interface. Remember to zero the scale before putting things on scale every time; otherwise, there is no totalization.

Check and clear: Normally long press TOTAL and “TOTAL ” shows for one second.

Then the total quantity interface “Cn xxx” and the total weight interface “t xx.xx” show.

Press Print or GROSS to switch between the above two interfaces. Press ZERO to clear the total quantity or the total weight value. Press ON/OFF to confirm and press COUNT to exit.

5.2 Counting

F 1.10=1

Operation: Normally press COUNT to switch between the weight and quantity display.

Sampling: Long press COUNT until “SAMPLE” shows. Press ON/OFF and as “Sn XXX” shows, put in the correct quantity. If F 2.4=0, put the corresponding quantity on scale and press ON/OFF to confirm the sample quantity and weight; if F 2.4=1, press ON/OFF and as “XXXXXX” shows, put in the corresponding weight and press ON/OFF to confirm the sample quantity and weight.

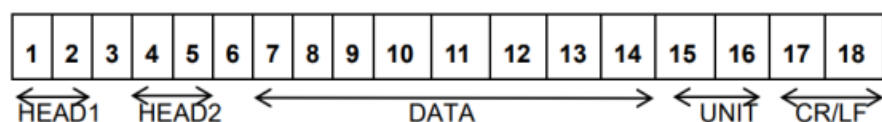
Appendix I Indicator Prompt Message

Normally the indicator is stable and reliable. If the indicator fails, restart it first. Find out what the error is before repairing it. Repair the indicator according to the error codes.

No.	Code	Error	Countermeasure
1	【-EEE】 【EEE】	Unable to zero after startup	1. Make sure there's no load on scale at startup. 2. Redo zero-calibration.
2	【-----】	load above upper limit	Reduce load
3	【L-----】	load less than lower limit	Press Zero to reset
4	【--no--】 【no--】	Out of zeroing range	Remove load on scale if any.
5	【--00--】	Invalid	
6	【Err 03】	EEPROM verification and error	Press ON/OFF to restore and then restart. If the code shows again, return the indicator to factory; if there's no code re-calibrate the indicator. Note: Restoring factory default includes restoring all parameters.
7	【Err 07】	The scale is dynamic during calibration	Check the scale
8	【Err 08】	Wrong date or time	Set date and time as required
9	【Err 09】	Wrong AD initialization	Restart. If the error shows again return the indicator to factory.
10	【LOAD】	load calibration: load weight to scale	Add weights to scale as required
11	【SETUP】	Enter into menu setting	Press ON/OFF to continue setting.
12	【End】	The end of zero/load calibration	
13	【Ld---】	Load default value	

Appendix II Serial output format

Serial output format



HEAD1 OL overload, underload or no zeroing at start-up

ST the scale is stable

US the scale is unstable

HEAD2 GS gross weight

NT net weight

DATA data display

UNIT kg/lb

CR/LF New line

Example 1: stable, gross weight: 18.000kg, sp = space.

S	T	,	G	S	,	s	s	1	8	.	0	0	0	k	g	0	0a
						p	p									d	

Example 2: unstable, net weight: -0.200kg, sp = space.

U	S	,	N	T	,	-	s	s	0	.	2	0	0	k	g	0	0a
							p	p								d	

Appendix III Printing Output Format

LIST

Date 2018/04/14

Time 15:08:46

Gross 2.061kg

Tare 0.000kg

Net 2.061kg

LIST

Date 2018/04/14

Time 15:10:18

Count 206PCS

Documents / Resources



[VETEK HL318 Plus SSC LCD Display Weight Indicator](#) [pdf] Instruction Manual
HL318 Plus SSC, HL318 Plus SSC LCD Display Weight Indicator, LCD Display Weight Indicator,
Display Weight Indicator, Weight Indicator

References

- [User Manual](#)

