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VETEK HL318PLUS SSC LCD Indicator

INTRODUCTION

Technical parameters

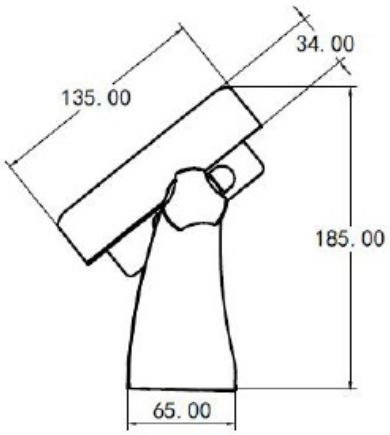
6-digit 1.6-inch LCD, various indicating lamps, long service life and good shock resistance

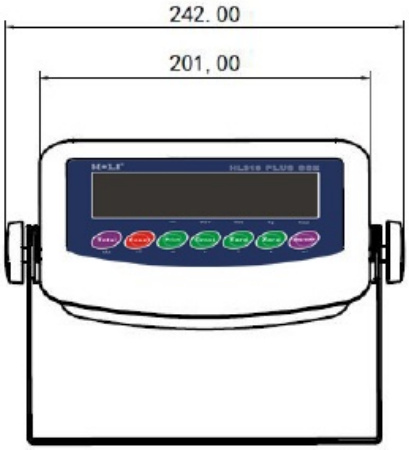
- 7 buttons, simple operation
- Protection level: IP5x
- Excitation voltage: +5VDC
- Load capacity of sensor: at most four 350Ω simulation sensors
- Input signal range at null point: 0~5mV
- Input signal range at full scale: 1~10 mV
- Inner resolution: 1 million
- Display division: 1000~30000
- A/D sampling 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℃-40℃, relative humidity: below 85 %
- Storage temperature: -20℃-60℃, relative humidity: below 85 %

Main Functions

- Basic functions: zero and tare
- Totalization, counting
- Auto power-save
- Parameter redundancy backup
- Real-time clock
- Auto power-off

Dimension



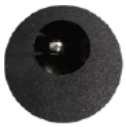


Model

HL318 Plus SSC

Interface

Power supply

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

RS232

- 1Pin: TXD
- 2Pin: RXD
- 3Pin: GND

Load cell

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

Operation

Indicating Lamps

Sign	Meaning	Specification
~	Dynamic/static	When the scale is dynamic the lamp is on; otherwise, the lamp is off.
→0←	Zero-center	When the absolute weight value is less than

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~	Dynamic/static	When the scale is dynamic the lamp is on;ot herwise, the lamp is off.
→0←	Zero-center	When the absolute weight value is less than

		±d/4 the lamp is on; otherwise, the lamp isof f.

Net	Gross/net weight	The lamp is on at net weight and off atgross weight.
kg	Weight unit	The lamp indicates the weight unit in use.
Total	Totalization	When the to talizaton function is in use the l amp is on.

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

Setting

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 →

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_SCL 】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.

Functions

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.

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.

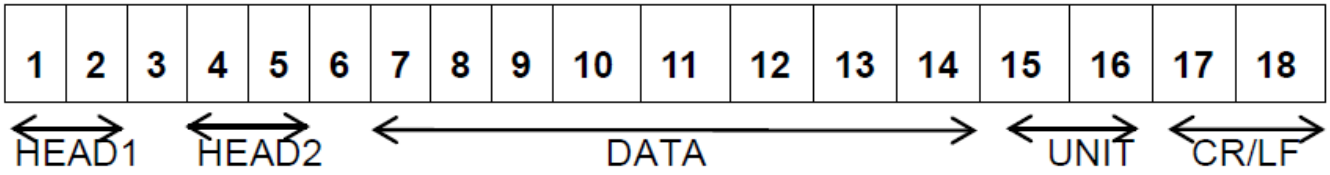
Appendix I Indicator Prompt Message

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	【⌞_____⌟】	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	,	sp	sp	1	8	.	0	0	0	k	g	0d	0a

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

U	S	,	N	T	,	–	sp	sp	0	.	2	0	0	k	g	0d	0a

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

FAQ

- **Q: How do I perform zero calibration?**

  A: Remove weights off the scale and press ON/OFF. The indicator shows… Finally, …

appears for one second and zero calibration ends.

- **Q: How do I perform load calibration?**
  A: Add weights to the scale and make sure… Press ON/OFF… Enter the same value as the weights… Wait until the scale is stable…

Documents / Resources

	VETEK HL318PLUS SSC LCD Indicator [pdf] User Manual HL318 Plus SSC, HL318PLUS SSC LCD Indicator, HL318PLUS, SSC LC D Indicator, LCD Indicator, Indicator

References

- User Manual

VETEK

HL318 Plus SSC, HL318PLUS, HL318PLUS SSC LCD Indicator, Indicator, LCD Indicator, SSC LCD Indicator, VETEK

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