



USER MANUAL



HS1

Note:

1. Don't immerse the indicator in water or other liquids.
2. Don't place the indicator near heater or humidity.
3. If the low voltage simple () display, pls charge the battery
4. Do not crush and compact the indicator
5. If stop using the indicator in long time, pls clean the indicator and keep the indicator in dry environment, charge battery per 3 months, if you start to use indicator, pls charge indicator first

1.Specification:

Accuracy:	III
Sensitivity:	1.5~3.0mV /V
Linear:	≤0.01%F.S
Voltage:	DC:5V
Division:	1/2/5 Option
Speed:	20 times per second
Inter Resolution:	300,000/600,000

2.Power source:

Input: AC 120~240V
Output: DC 10V/600mA

3.Power Consumption:

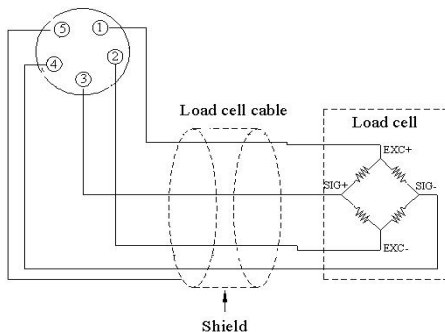
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|---------------------------|-------------------|
| 1. Main System | : Approx 24.1mA |
| 2. Main System with RS232 | : Approx 44mA |
| 3. Battery Duration | : About 120 hours |

4.Indicator and load cell connectors

The Connect plug is 5 pins

For Protecting The Indicator and Load Cell, Please Do Not Take Off The Plug When The Indicator is on.

Welding the indicator is forbidden.



PIN 1:EXC+

PIN 2:EXC-

PIN 3:SIG+

PIN 4:SIG-

PIN 5: SHIELD

5.Counting Function

Press **【UNIS】** in 2 Seconds, The Screen Display“0”, The unit light“kg”

Press **【UNITS】**, Screen display“C 10”, Press **【UNITS】** to set the sample quantity.

Put the sample on scale, Press **【OFF】** to Confirm, Then the screen show the sample quantity

Press **【UNITS】** in 2 seconds, back to weight model from counting model.

Remarks: If the sample weight under 0.2d,the sample can not be taken.

6.Key Function and Operation

OFF : To turn off the scale press and hold the **OFF** key and the weight window will show “OFF” for 2 seconds then the scale will turn off automatically

Confirm Function: In the Setting Model, Press **OFF** to Confirm.

ON/TARE/ZERO

ON: Press “ON”to turn on the indicator.

ZERO: Turn on the indicator, If the plate is empty, but the indicator display value ,pls press ZERO. The indicator will display 0(The displayed value should under 2% full capacity)

TARE: Put the container on the plate, Then press the TARE to reduce the container

weight (The container weight should be more than 2% full capacity), then put the goods in the container, indicator will show the NET WEIGHT(only goods weight),the max weight of container can be reduce by TARE equals the full capacity.

In function setting model ,press the TARE as ESC, then back to the weight model.

UNITS

Function Switch : Counting and Weight function switching.

Changing the parameter: in the Function setting, press the UNTIS to change the parameter.

M+/PRINT

Accumulation: In the weighing model, put the goods on the scale, then press the M+ to accumulate the goods weight first time(the indicator display the time and weight),then remove the goods from the scale, the indicator display 0,then put another goods to the scale, press the M+ to accumulate.....

Review Accumulation: when you weight up all goods, press the M+, the indicator displays the Times and Accumulation.

Accumulation Clearance: Press M+ in 2 seconds, all the Accumulation will be cleared.

Print: Press this key to print (Optional)

In the Function setting model, Press the Key to remove the parameter digital.

7.Basic Function Operation and Setup

In the weighing model, Press OFF first, and meanwhile press the UNTIS, then Stop pressing the two keys, the indicator display “UF—1”, press 【M+/Print】 to switch from UF--1 to UF--9

Displa y	Function	operation
UF-1	Check the inter value and battery voltage	Press 【OFF】, The indicator display the inter value, Press OFF again, the indicator display the battery voltage value, Press 【OFF】 back to UF-1
UF-2 UF-5	NON	
UF-3	Auto power off setting	Press 【OFF】, The indicator display AOFF OO, Press 【UNITS】to change the parameter, press 【M+/Print】 to chose the digital, if set the parameter as AOFF 00, The indicator have no Auto power off function, If set the parameter as AOFF O1,the indicator will auto power off in one min after the indicator display 0.00kg, press 【OFF】 back to UF-3
UF-4	Standby	Press【OFF】, Press【UNITS】to change the parameter,

	model	Press 【M+/Print】 to chose the digital, Press 【OFF】 back to UF-4																												
UF-6	RS-232	<table><tr><td>Format 1</td><td></td><td>Format 2</td><td></td></tr><tr><td>232 1</td><td>Stable output</td><td>232 4</td><td>Stable output</td></tr><tr><td>232 2</td><td>Stream output</td><td>232 5</td><td>Stream output</td></tr><tr><td>232 3</td><td>Manual output</td><td>232 6</td><td>Manual output</td></tr><tr><td>Format 3</td><td></td><td>Format 4</td><td></td></tr><tr><td>232 7</td><td>Manual output</td><td>232 9</td><td>Manual output</td></tr><tr><td>232 8</td><td>Stable output</td><td>232 10</td><td>Stable output</td></tr></table>	Format 1		Format 2		232 1	Stable output	232 4	Stable output	232 2	Stream output	232 5	Stream output	232 3	Manual output	232 6	Manual output	Format 3		Format 4		232 7	Manual output	232 9	Manual output	232 8	Stable output	232 10	Stable output
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UF-7	Speeding seting	Press 【OFF】 ,Press 【UNITS】 To switch 1 2 3 1: fast 2: normal 3: slow 。 Press 【OFF】 back to UF-7																												
UF-8	Division range display	Press 【OFF】, press 【UNITS】 to chose the No. the chosed No.will not display, Press【OFF】back to UF-8																												
UF-9	G value	Press【OFF】, the indicator display G-value of factory, If want to set the G value according the new place , Press 【OFF】 and then press 【M+/Print】 to chose the digital, Press 【UNITS】 to chose the vlaue, Press 【OFF】 back to UF-9.press 【ON/ZERO/TARE】 back to weighing model																												

8.Calibration:

In the weighing model, Press OFF first, and meanwhile press the UNTIS, then Stop pressing the two keys, the indicator displays“ECF—1”, Press**【M+/Print】** to switch from ECF—1 to ECF--3

ECF-1	Check weighing setting(span)	Press 【OFF】 , The indicator displays CALZ, Empty the plate, Press 【OFF】 to set up the zero , press 【M+/press】 to chose digital, press 【UNITS】 to input the weight value, then put the weight on the plate, press 【OFF】 confirmation and back to weighing model
ECF-2	Zero calibration	Press 【OFF】 , The Indicator displays CALZ, empty the plate, Press 【OFF】 to set up zero, and back to weighing model.
ECF-3	SPAN Calibration	Press 【OFF】 and Press 【M+/Print】 to chose the digital , Press 【UNITS】 to input the weight value , put the weight on the plate , press 【OFF】 to confirmation and back to the weighing model.