



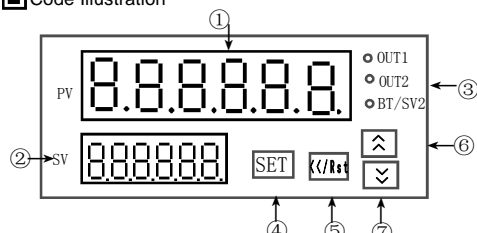
## LH Series Weighing Batching Controller Instruction Manual

Thanks a lot for selecting **MYPIN** product!  
Before operating this instrument, please carefully read this manual and fully understand its contents. If any problems, please contact our sales or distributors whom you buy from. This manual is subject to change without prior notice.

### Application

The instrument provides isolated aux. power, (regularly 5V/80mA) which allows 1-4 load cells connection directly. Up to 6 control outputs are available for group ingredients weighing or fast/slow weighing; Data/Peak value holding function for choice. RS485 communication interface provides remote link with PC/PLC. Besides, you can Start/Pause/Accumulate/Clear tare weight/average/clear zero, etc. for the displaying weight with external control terminal.

### Code Illustration



- ① Measuring value/Parameter code display
- ② Parameter value/ preset value
- ③ Control output indicate lamps: On: active, Off: inactive  
OUT1: Alarm 1, OUT2: Alarm 2, BT/SV2: Alarm 3
- ④ Parameters Select / Confirm key
- ⑤ Shift key / tare weight Clear key
- ⑥⑦ UP & DOWN key

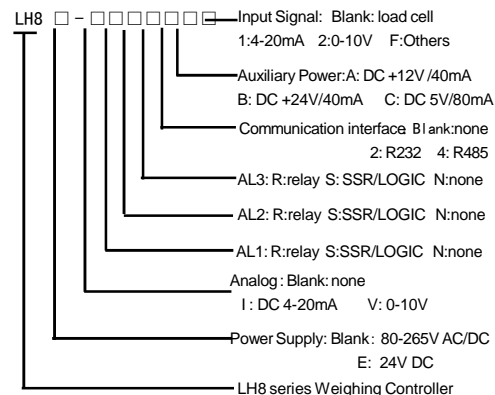
Input Regular: mV(Load cell) Customized: mA/V

### Specifications

Power	90-260V AC/DC OR 15-30V AC/DC
Power Consump.	≤ 5VA
Accuracy	0.1%F.S' R2 digit (24 bit A/D conversion)
Sampling speed	16-128 times/sec
Relay	Open contact 250V AC 3A or 30V DC 3A COSφ=1
Input	Regular: mV (load cell), Customize: mA/V
Analog Output	0-10V / 4-20mA output, configurable by software
Auxiliary Power	Isolated DC 24V/12V/Max 40mA, or 5V/80mA
Communication	RS232 or RS485 MODBUS RTU protocol

Mounting dimensions: 91+0.5X45+0.5mm

### Code Illustration



Dimension: LH8: 6 digits display, 48H\*96W\*80L mm

### Parameters setting

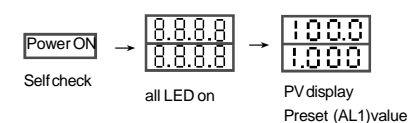
1. **Parameter setting:** In displaying estate,
  - a. press and hold SET key >3s, enter / quit parameters setting menu.
  - b. Press <</Rst key, LED flashes,
  - c. Press Up / Down key to modify,
  - d. Press SET key to confirm.
  - e. Press SET key again to read the following parameters one by one.

#### 2. Adjustment:

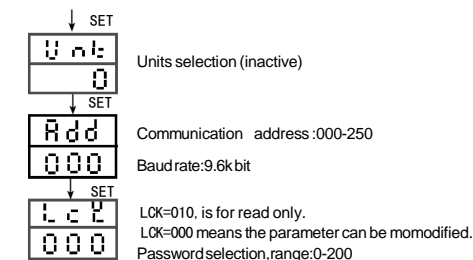
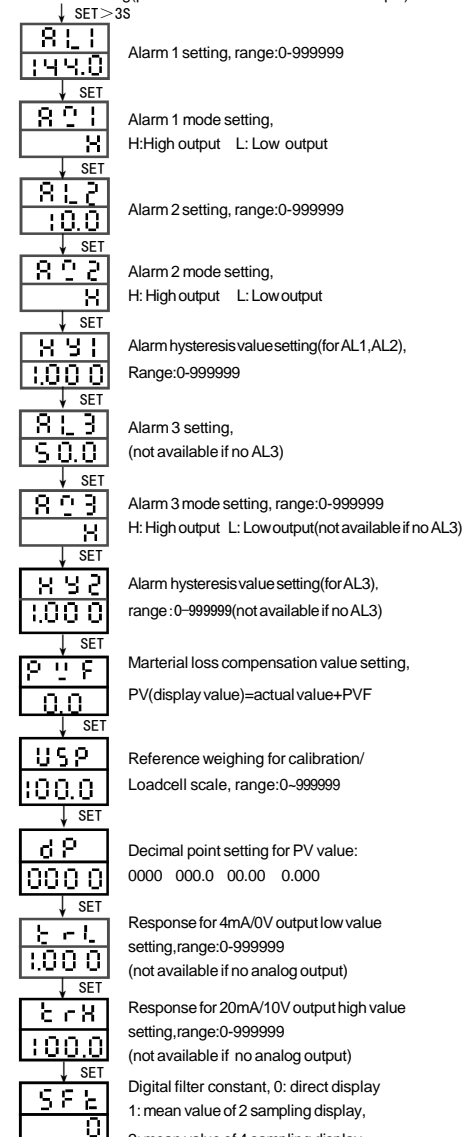
- a. well connected wires and sensor, turn the power on,
- b. Parameter 5EL setting. press UP and DOWN key >3s to enter the menu set the data in hundredth bit to 0. press SET key to confirm.
- b. Set USP=Standard weight (suggest more than 20% load cell scale) set PVF= 0000.
- c. Without any weight on the instrument, press DOWN key >5s until OK flashes. That's to set the zero point and it displays 0.0;
- d. Add the weight equal to settled USP, press UP key >5s until OK flashes. That's to set the high value. and it displays the added weight.
- e. Should big error happens, just repeat the above operation.
- f. After finish the above operation, press <</Rst key >2 s. to clear tare weight.
- g. Parameter 5EL setting. press UP and DOWN key >3s to enter the menu set the data in hundredth bit to 1. press SET key to confirm.

3. **Clear tare weight:** in display estate, press <</Rst or external RST more than 2 seconds to clear, then it displays 0;
4. The instrument will return to the measuring estate without any operation for 25 seconds.
5. when accumulated/average function is needed, the accumulate value will be in the Low LED. Press external terminal RST to reset, SUM to add up the value will be added when each operation to SUM.
6. **Decimal point setting for parameter AL1, AL2, AL3, HY1, HY2, PVF, USP**  
rL, rRH: press <</Rst key, LED flashes, then one hand to hold SET key, and the other hand to press UP key to shift the decimal point. Press SET key again to confirm and save.

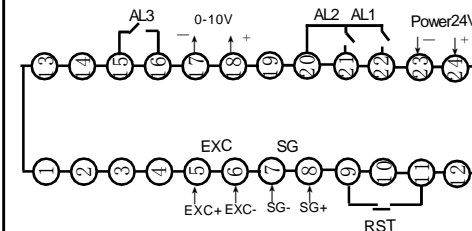
### Operation process



Parameter setting (press SET for 3 seconds to enter or quit)

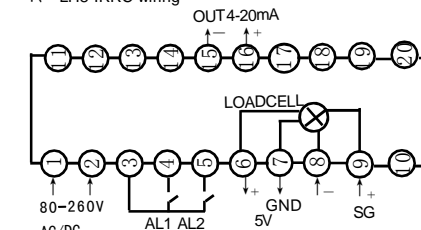


### Connections (If any changed, refer the label on the meter).

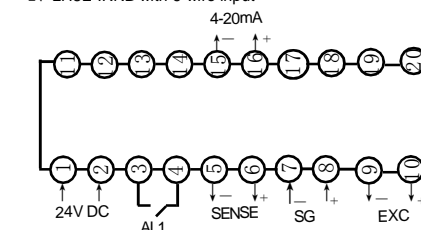


### Application examples

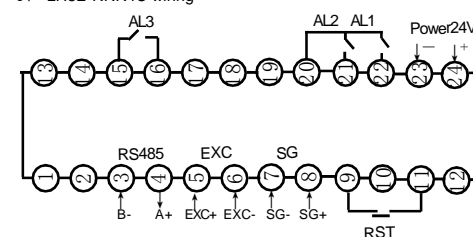
#### 1. LH8-IRRC wiring



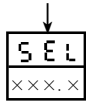
#### 2. LH8E-IRNB with 6-wire input



#### 3. LH8E-RRR4C wiring



On displaying estate, press UP and DOWN key for more than 3 seconds to access to parameter SEL setting. The operation steps are the same as the other settings. After setting, press UP and DOWN key to quit. This operation is to modify SEL value ONLY. Other parameters are fixed by manufacturer. Please do not make any change.



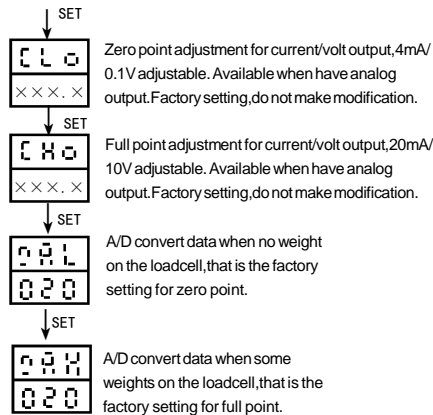
If SEL=XXX1XX,  
that means the user can't do on-site weight adjustment by pressing UP/DOWN key.  
If SEL=XXX0XX,  
that means the user can do on-site weight adjustment by pressing UP/DOWN key.

Note:

\*\*\* X means the original data. Do not make modification.

\*\*\* Just make modification to data 1/0

\*\*\* Factory setting is XXX0XX. After on-site adjustment, make sure SEL=XXX1XX. This is to avoid incorrect display by user's inappropriate key-pressing operation.



Zero point adjustment for current/volt output, 4mA/0.1V adjustable. Available when have analog output. Factory setting, do not make modification.

Full point adjustment for current/volt output, 20mA/10V adjustable. Available when have analog output. Factory setting, do not make modification.

A/D convert data when no weight on the loadcell, that is the factory setting for zero point.

A/D convert data when some weights on the loadcell, that is the factory setting for full point.

Note: All the above parameters are for factory setting. Do not make any adjustment.

### Adjustment for large-tonnage scale loadcell:

- A. Set USP=the total weight of all input loadcells (eg. each loadcell is 1000KG, 3 loadcells in total, the total weight is 3000kg. Then set USP=3000.).  
Set PVF=0.000,
- B. Record the displaying value (PV1) when no weight on the loadcells (eg. 100.5kg).
- C. Add the standard weight (the weight should be larger than 20% of the total loadcell weight, eg. 500kg).  
Recorder the displaying value (PV2) (eg. 630kg).
- D. Calculation: The actual weight added (eg. 500kg) / (PV2 - PV1)  
eg.  $500 / (630 - 100.5) = 0.9442$ .
- E. Calculation: USP \* (The actual weight added / (PV2 - PV1)).  
eg.  $USP * (500 / 529.5) = 2832.86$ ,  
Then set USP=2832.86 again.
- F. The adjustment is finished.