Load Cell Intelligent Weighing Digital Display Controller

User Manual

General Parameters:

1. Lock: Press the SEL settings below, and the display window will display the indicator LOCK, then 1230, and then change to 1231 before you can enter the following parameters.

2. Dot:

    a. 20kg sensor, can be set with 3 decimal points 20.000kg

    b. 200kg sensor, can be set with 2 small points 200.00kg.

    c. 2000kg sensor, can be set with 1 decimal point 2000.0kg.

3. Lb:

    a. 0: Do not do anything.

    b. 1 ~ 40: The higher the set value, the better the filtering effect, but the slower the speed.

4. Ad-H: Acquisition speed (0 low speed, 1 fast speed)

5. CLr:The power-on zero-tare range (0~999.9), the parameter is greater than zero, and the meter is automatically cleared and tare within this range when the meter is powered on.

6. Fd: Selectable graduation values(1, 2, 5, 10, 20, 50, 100, 200)

7. ZEro: The zero tracking range (0~9999) automatically tracks the deviation near the zero point of the automatic tracking weighing, so that the gross weight display is maintained to the zero point. Note: Automatic clearing is ineffective in automatic mode.

8. Z-t: Zero tracking time (10.0~600.0s)

9. FSET: Correction factor, display value = display value * 1.0000

Alarm Parameters:

1. LoCK: Press the SEL settings below, and the display window will display the indicator LOCK, then 1230, and then change to 1232 before you can enter the following parameters.

2. AL:

    a. PVL: Both ALI and AL2 are lower limit alarms, the measured value is lower than the lower limit, and the relay is engaged.

    b. PVH: Both ALI and AL2 are upper limit alarms, the measured value is higher than the upper limit, and the relay is engaged.

    c. PVHL: PWL: AL1 is the upper limit and AL2 is the lower limit.

    d. OFF: Closes the reporting function.

3. AL1: When the measured value exceeds (50.0), the relay will act, and when the measured value is lower than 45.0, AL1 will be disconnected.

4. AH1: Upper Limit Alarm Return Difference.

5. AL2: The AL2 upper limit alarm is set to a fixed value, when the measured value exceeds (150.0), the relay acts, and when the measured value is lower than 145.0, AL1 is disconnected.

6. AH2: Upper Limit Alarm Return Difference.

Calibrate the Sensor:

1. Press and hold the subtraction button, the sensor should not be weighted, press the set button once, and change the number value to 0. Then press the setting, and the zero point calibration is completed.

    a. AD: The zero point AD code value, the sensor does not put the weight, wait for 2s, and then press the set key to save the point code.

    b. PL: Enter the weight value corresponding to the zero-point code value, and the value is set as the value just now that the weight is not placed on the sensor.

    c. END: Displaying END indicates that the calibration is completed and automatically returns to the working state.
2. Press and hold the plus button, press the weight on the sensor, press the set button once, change the number value to the weight of the release, and then press down to set it, and the full calibration is completed.

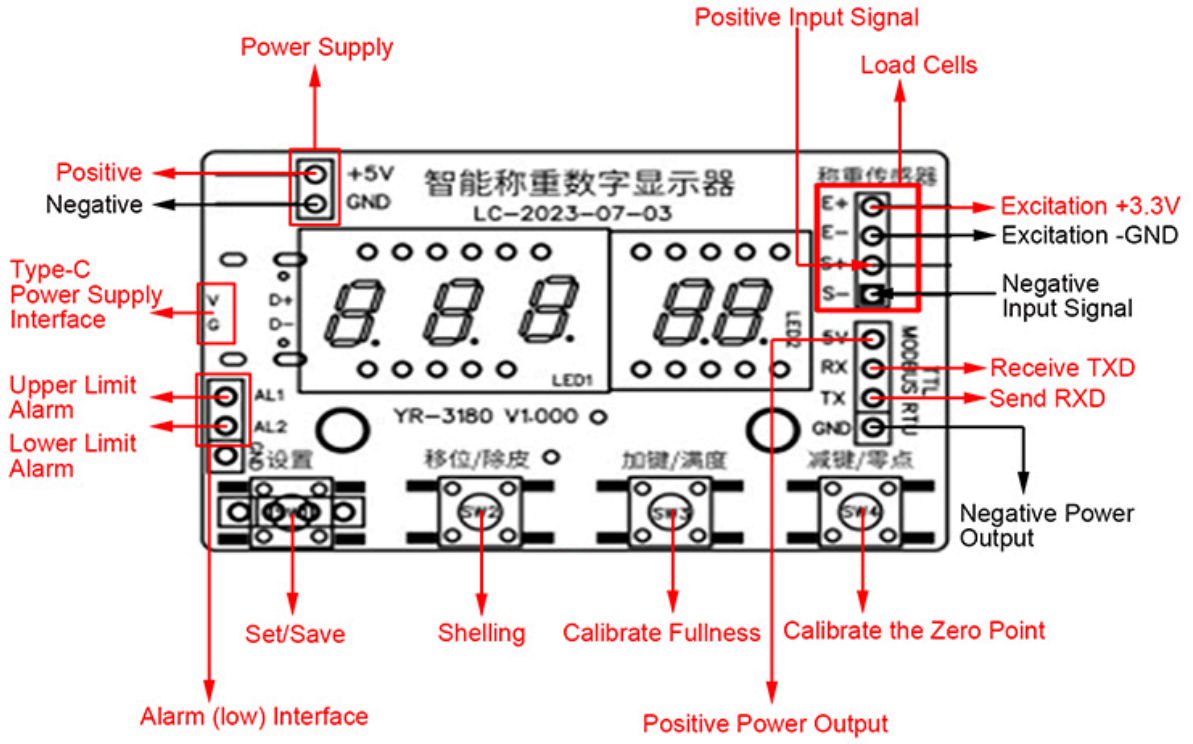
    a. AD: When the AD code is fully collected, the weight should be placed on the sensor, and after 2 seconds, press the set button to save the full code (the range of the sensor is more than 20%).

    b. PL: Enter the weight value corresponding to the full code value, and just put the weight on the sensor, this value is set to how much or less, and press the set key to save.

    c. END: Showing END indicates that the calibration is completed and automatically returns to the working state.

Parameter Set Value				
N.o	Symbol	Range	Description	Default
1	LoCK	0-9999	1.Press the SEL button and then display 'LOCK'and 1230; 2.Change 1230 to 1233; 3.Enter into parameters set mode.	1230
2	Addr	001-255	ModBus communication station number	001
3	Baud	1200-115200	Baud rate within kbps	9600
4	Pari	None	1.None: No check digit 2.Odd: Even check digit 2.Even: Odd check digits	8,N，1
5	Foalot	1234 2134 3421 4321	1.Data order: 12345678,42CAFB10 2.Data order: 34127856,CA4201FB 3.Data order: 56781234,FB1042CA 4.Data order: 78563412,10FBCA42	123

Register Address	Function	Register Address	Function
0、1	Measurements	23、24	Lower range limit
2、3	Floating-point numbers	25、26	Upper range limit
4	Decimal point	32	Write 1 to set the lower bound Write 2 to calibrate the upper limit
5	Filtering	33	Write 1 peel Write 2 remove the peel
6	Acquisition speed	27	Communication address
7	Graduation value	28	Polt rate
8	Boot Zero value	29	Check digit
9	Automatically clears the zero value	30	Floating-point order
10	Automatic zeroing time	48	Alert method
11、12	Tare value	53、54	AL1 alarm value
13、14	Fullness modified	58、59	AL1 return difference
15、16	The lower limit is to calibrate AD	56、57	AL2 alarm value
17、18	Upper limit calibration AD	60、61	AL2 return difference
19、20	Filter Acquisition	80	AL1 Alarm status
21、22	Originally taken	81	AL2 Alarm status


Power Supply
Positive Input Signal
Load Cells
Positive
Negative
+5V
GND
智能称重数字显示器
LC-2023-07-03
称重传感器
E+
E-
S+
S-
Excitation +3.3V
Excitation -GND
Negative Input Signal
Type-C Power Supply Interface
V
G
D+
D-
LED1
LED2
5V
RX
TX
GND
TTL MODBUS RTU
Receive TXD
Send RXD
Upper Limit Alarm
Lower Limit Alarm
AL1
AL2
YR-3180 V1.000
设置
移位/除皮
加键/满度
减键/零点
SW1
SW2
SW3
SW4
Negative Power Output
Set/Save
Shelling
Calibrate Fullness
Calibrate the Zero Point
Alarm (low) Interface
Positive Power Output


54MM
34MM
+5V
GND
智能称重数字显示器
LC-2023-07-03
称重传感器
E+
AL1
AL2
YR-3180 V1.000
设置
移位/除皮
加键/满度
减键/零点
TTL MODBUS RTU
GND