

## Digital Panel Meter User manual

### I. Names and functions of each component



## II、Specification parameter

- 1、Display bits: 5 bits;
- 2、Comprehensive accuracy: 0.05%;
- 3、Operating temperature: Charging 0~45°C, electro-discharge -10~50°C;
- 4、Battery continuous working time: 24 hours;
- 5、Overall size: 176×72×38mm;
- 6、Power adapter: 9VDC2A;

III、Parameter table (Press the Set key to display the parameter table, press the right button to enter the parameter, modify the parameter and press the set key to save and exit)

Parameter name	Value range
Display unit	kg t kN N lb
Sampling rate	7.5 15 30 60 120Hz
Upper alarm limit	-19999~99999
Lower alarm limit	-19999~99999
Capture length	5-99999 s (After capturing, return to the measurement interface)
Set the coordinate range	0~99999
Sensor calibration	See calibration for details (If calibrated, do not enter)
Clear storage space	NONE
Peak holding time	0~86400 s
First peak defined value	0~99999
Wireless mode parameter (OPT)	accept sending ban (Set up and need to be powered on again)
Number of decimal places	0 1 2 3 4

Note: The sampling speed of wireless mode is fixed at 7.5Hz

## IV、Definition and rapid calibration of sensor interfaces

- 1、Five-core navigation definition: Pin 1: Signal negative (white line)  
Pin 2: Signal positive (green line)  
Pin 3: excitation negative (black line)  
Pin 4: excitation positive (red line) Pin 5: empty

### 2、Fast calibration/calibration

(If the sensor and handheld watch are purchased as a set, the factory has been calibrated, do not repeat the "sensor calibration")

When the sensor or sensor device is unloaded, press "Settings" to enter the parameter table. Find "Sensor Calibration"

Press "▶" to enter, enter the password 011111, and determine the zero point to display "00000", and the end of the line is red, and use the three keys of "◀" "▲" "▼" to set the display value to the weight of the sensor device to be added. After setting up, add the weight of the sensor, and press the "Set" button when stabilized. The instrument shows "--", "--", "--", "... "-----" At last, return to the parameter table, press the "Set" key to return to the measurement interface, and calibration is completed.

3, in the case of determining the sensor device unloaded, long press the "clear" key to complete the power saving of the zero (tare).

## V. Trigger and data analysis

1. Press the "Set" button, then press the "Up" button to enter the data capture interface, then press the right button to start data capture, collect and store the set "capture length (unit second)", then return to the measurement interface, the upper left corner of the trigger times display 10%, repeat this operation, the instrument will enter the capture state again, collect and store the set time and return to the measurement state. Trigger times display 20%, and so on, can be stored to 90%, after the measurement needs to connect the computer to copy the data (similar to the U disk), copy the data after clicking the instrument parameter "Clear storage space" to delete the instrument storage data. The data format TXT, can be distributed on the computer "force curve analysis software" to its tracing point analysis. See the "Force Curve Analysis Software Manual" for details.