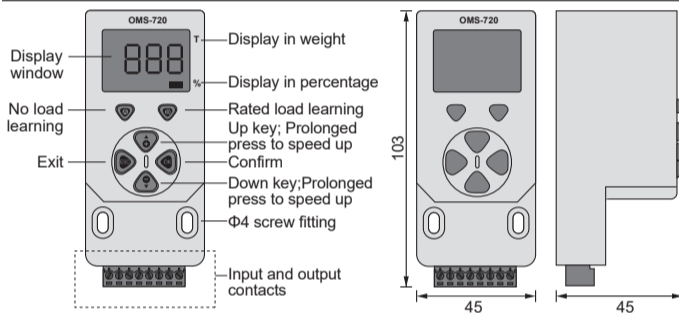




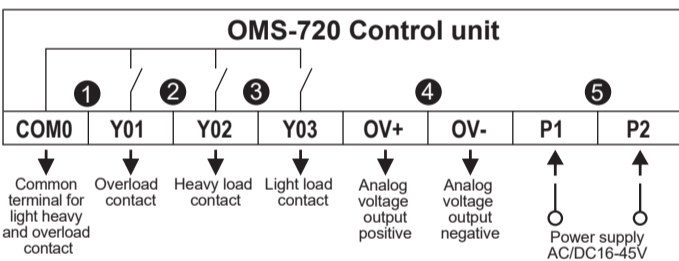
# OMS-720 USER MANUAL (VER 1.9)

NINGBO ANT ELECTRONIC CO.,LTD

## Appearance And Installation Dimensions Of The Main Controller

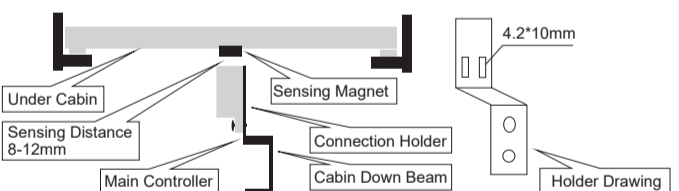


## Interfaces Of The Main Controller



- NOTES**
- Acts when measured weight  $\geq$  rated load  $\times (1+P01\%)$ ;
  - Acts when rated load  $\times P08\% \leq$  measured weight  $\leq$  rated load  $\times (1+P01\%)$ ;
  - Acts when  $0\% \leq$  measured weight  $\leq$  rated load  $\times P07\%$ ;
  - Analog voltage output changes linearly from -10V to +10V or 0V to +10V according to P06 setting when load varies.
  - Please make sure the working voltage is AC/DC16V-45V before normal operation;

## Installation Drawing (Only for reference)



- NOTES**
- The induction magnet has a marked side which is opposite to the main controller. The magnet is a special rare earth magnet, which is strong and must be carefully installed in the process of installation. Any time to avoid the high temperature of 100 °C in order to reduce the accuracy of the measuring demagnetization.

## The Menu Structure And Parameter Setting

Parameter	Meanings	Parameter Range	Default value
8888	Overload range setting;	00-20-indicates 0~20%, overload relay acts when measuring load exceeds (1+p01%) rated load;	10
8802	Bouncing sensitivity setting;	00-10 - The sensitivity decreases with the value of P02 increasing;	05
8883	Spare		00
8804	Delay time setting for overload relay release;	00-05 - Indicates 0-5 seconds;	02
8805	Mode setting for rated load learning;	00 - Learning with full weight load; 04 - Learning with any known weight load;	00
8806	Analog voltage output range setting;	00 - Analog voltage output -10V to +10V; 01 - Analog voltage output 0V to +10V;	00
8808	Light load range setting;	05-75 - Indicate 5~75%, light load relay acts when measuring load is in range of 0% to P07% rated load;	05
8808	Heavy load range setting;	90-99 - Indicate 90~99%, heavy load relay acts when load is in range of P08% to (1+P01%) rated load;	90
8809	Light load contact setting;	00 - Contact closes when in light load range; 01 - Contact releases when in light load range;	00
8808	Heavy load contact setting;	00 - Contact closes, releases on overload; 01 - Contact releases, closes on overload; 10 - Contact closes, no change on overload; 11 - Contact releases, no change on overload;	10

## The Menu Structure And Parameter Setting

8888	Spare		01
8888	Sensor's correction code or any known weight;	0000-9500 - Input correction code during rate load learning with no load or input weight during rated load learning with known weight in KG ;	0000
8888	Rated load value setting;	0000-9500 - Input rated load in KG; In rated load learning with full weight, 0000 can be used to treat the full weight as rated load;	0000
8888	Spare		01
8888	Spare		00
8888	Spare		50
8888	Spare		10
8888	Overload contact setting;	00 - Contact releases when in overload range; 01 - Contact close when in overload range;	00
8888	Version		

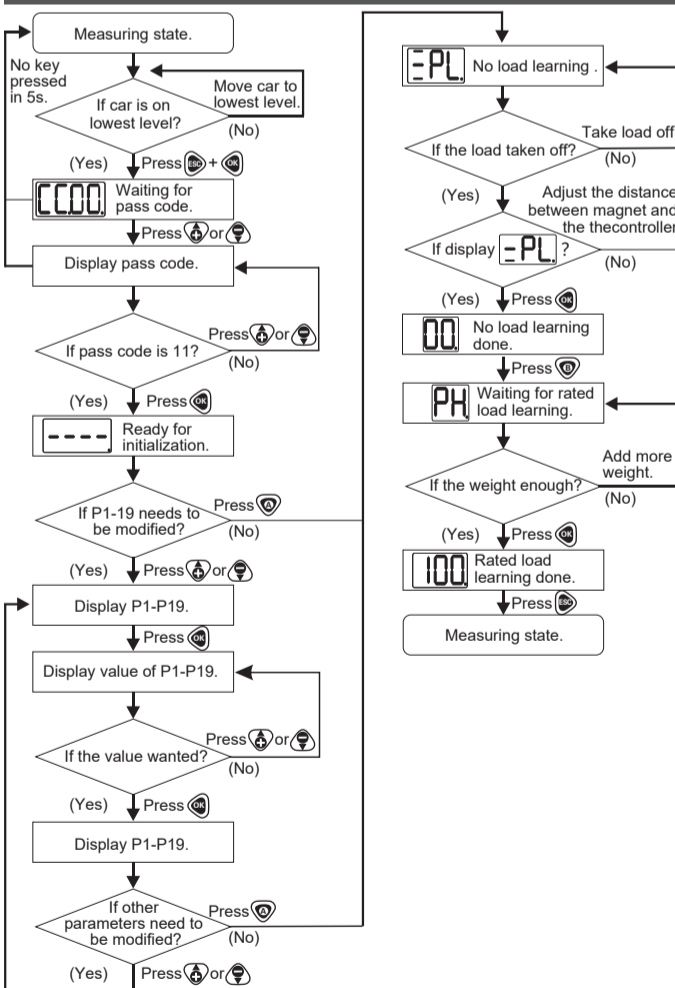
## The Display Codes And Their Meanings

Codes	Explanation	States
8888	Twinkle for code entrance;	Code entrance
8888	Twinkle for initialization;	Initialization state
8888	Parameter setting;	Initialization state
8888	Value of Pn (n = 01-19);	Initialization state
1018	Weight: 1080 kilogram;	Measuring state
8888	Percentage display of 101%;	Measuring state
8888	Overload;	Measuring state
8888	Ready for no load learning;	Initialization state
8888	No load learning complete;	Initialization state
8888	Ready for rated load learning;	Initialization state
8888	Rated load learning complete;	Initialization state
8888	Error code;	Initialization state

## Common Trouble Code And Countermeasure To The Trouble

Codes	Phenomena/explanation	Countermeasure
8888	Sensor not installed properly, wiring wrong, or used weight too light during initialization;	Check for installation or wiring error; use heavier weight on rated load learning;
8888	No no load learning performed during initialization process;	Perform no load learning before rated load learning process;
8888	Mistake with front and back side of magnet;	Adjust front and back side, make the front side be directed at the sensor;
8888	The shift position is too near;	The distance between the controller and the magnet is too near;
8888	The shift position is too far;	The distance between the controller and the magnet is too far;

## Flow Chart For Device Initialization



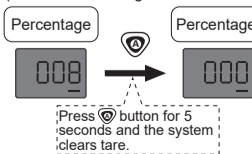
## Procedures For Device Initialization

**This system provides 2 initialization methods:**

- Initialization with full weight load: if there is enough weight on site and high measurement precision required.
- Initialization with any known weight load: if there is not enough weight on site and high measurement precision required.

According to on site situation, one of the following procedures can be used for initialization, and following examples may be referred to accordingly.

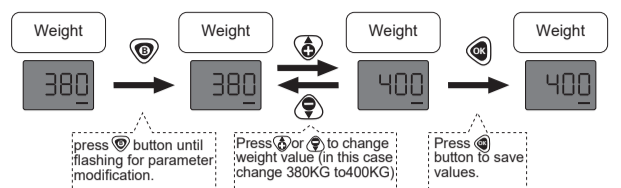
- **Hotkey for prompt tare clearing**  
(In this case, change 8% to 0% in empty load)



**NOTE:** before clearing tare, please make sure that the equipment has no load, good for both percentage and weight displays.

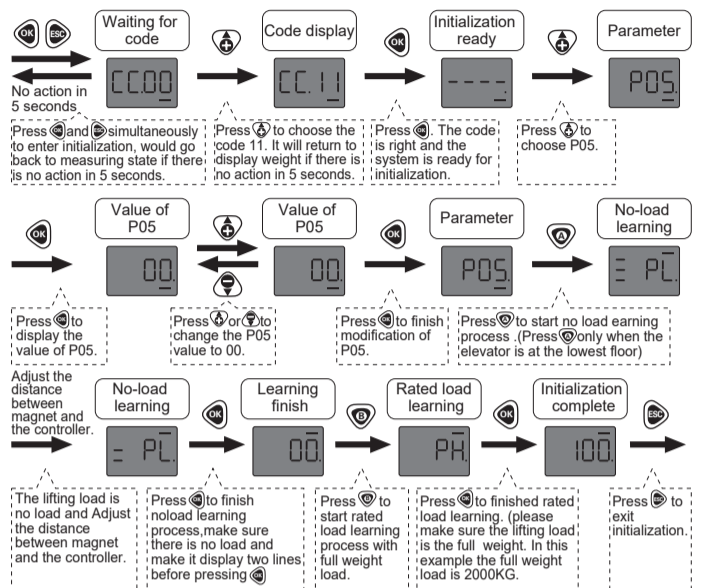
## Procedures For Device Initialization

- **Fast data modification**  
(This case is for changing display of 380KG to real display of 400KG)



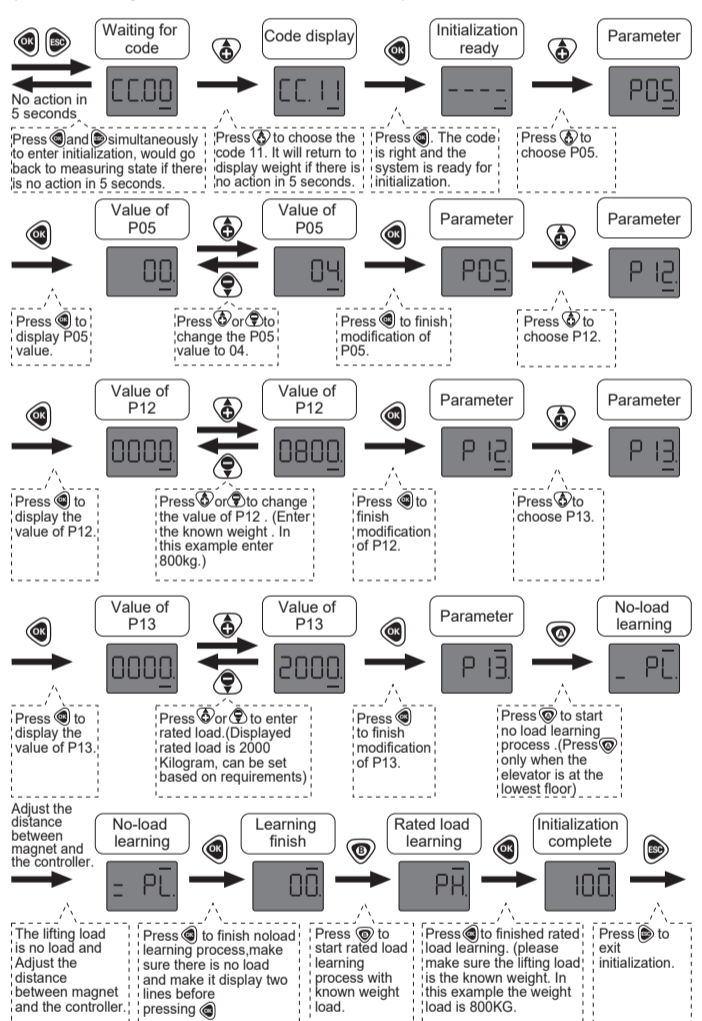
**NOTE:** before fast data modification, please make sure the real load weight, good for both percentage and weight.

- **Initialization with full weight rated load**  
(In this case, rated load is 2000KG and weight is 2000KG)



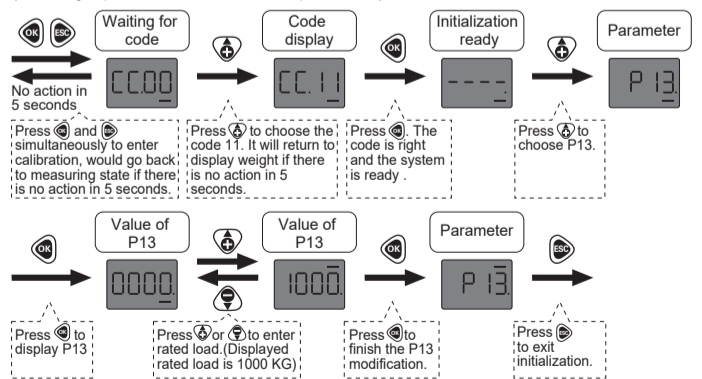
**NOTE:** initialization with full weight, P05 should be 00. The equipment should lift rated load. Input rated load value to P13, press button to switch display in percentage or in weight.

- **Initialization with known weight load**  
(In this case, weight is 800KG and rated load is 2000KG)



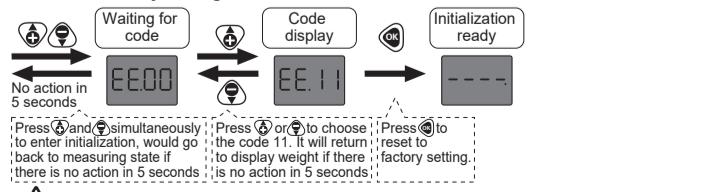
**NOTE:** initialization with any known weight, parameter P05 should be 04 and P12 and P13 should also be modified. the equipment should lift known weight during rated load learning period. input rated load value to P13. Press button to switch display in percentage or in weight.

- **Fast parameter modification**  
(Following is parameter P13 modification procedures)



**NOTE:** Procedure is the same for all parameters. data will be saved after press button.

- **Reset to factory setting**



**WARNING** After reset, all previous calibration is gone. please make sure before resetting.