

Microcomputer intelligent automatic metal detection machine

operating instruction

Model: F500QD



Please read the instructions carefully before using the device

• **Company Profile**

we are the manufacturer of metal detector based in developed production for many years , the introduction of a new generation of microcomputer intelligent high sensitivity, high reliability of touch-screen interface on the metal detector, the product from the use of similar products in the maintenance and auto diagnostic function to the user a great convenience.

Its characteristics and operation are described below:

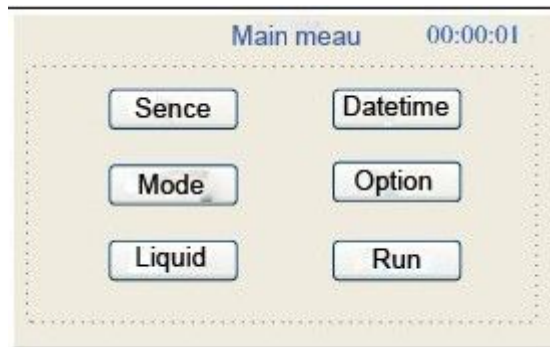
•**Features:**

1. A new analog circuits and digital circuits be combine, greatly improving the reliability and the level of intelligence.
2. Consists of the new LCD screen input and LSI, By the CPU to complete the analog signal collection and convert to the digital quantity processing, the output, automatic closing cable to detect objects the best point of the metal content, greatly improving the detection sensitivity and reliability sex.
3. By the hommization interface design, All the entire operation is simple and intuitive, human-machine interface read like a book, all the features of direct manipulation on the screen you can complete the functions they perform.
4. You can set all the necessary features and patterns, set up self-test function. Sensitivity: sub stalls, adjustable to increase, decrease (1-9 files adjustable). Detected trace metals, sound, light, meters, alarms, substandard products.

一. User Instructions

1. Turn on the power

The machine power switch installed in the bottom right corner of the operator panel button switch: IN (I) press for the opening. OFF (O) up to off. After through Power supply, and turn on power switch, the red indicator prompts, buzzer, whistle once. Wait for half a minute later interface to enter the main menu screen, as shown in Picture 1

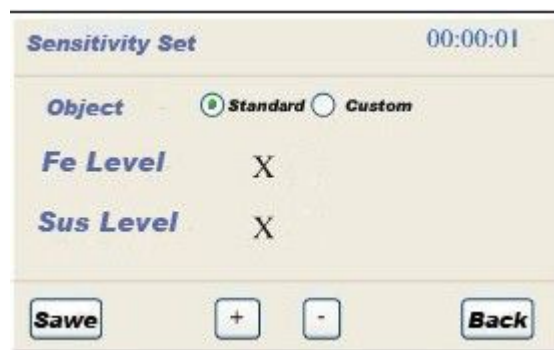


Picture 1

2. Parameter setting.

This function for the user to provide test object sensitivity level set.

As shown in picture 2



Picture 2

When detected object is set to [standard], the sensitivity of the system default factory settings; set to [custom], the detection sensitivity is set by the user value; sensitivity settings level is 1 to 9, level 1 is the highest sensitivity, The higher number, the lower sensitivity, the user can detect objects and sensitivity requirements may be given the appropriate data (1-9), if you want to set the Fe (iron) sensitivity, you should click on the number of characters in Picture 2 [X] is selected after anti-show, then you can press , , Symbol for increase sensitivity level, for reduce sensitivity level.

3. Detection mode

This function is set up to detect operation mode, Click on mode, and go into mode interface, in picture 3



Picture 3

【 Automatic 】 :when detect metals,machine only gave alarm,but conveyor belt still continued to move.

【 Manual 】:when detect metals,machine gave alarm and conveyor belt stopped

automatically return to the stopped state. .

This product uses the computer to form a control system can be completed according to the special requirements of users, the number of detected objects statistics, qualified, non-conforming product classification statistics, data storage, printing, dry and wet concentration of product identification, and multiple devices at the same time work to mutual interference separation requirements.

【Back】 :when detect metals,machine gave alarm and conveyor belt had been back.

After you selected mode,click on 【SAVE】 ,and then 【BACK】

4. Liquid

Click on liquid,and go into liquid interface.in picture 4.



Picture 4

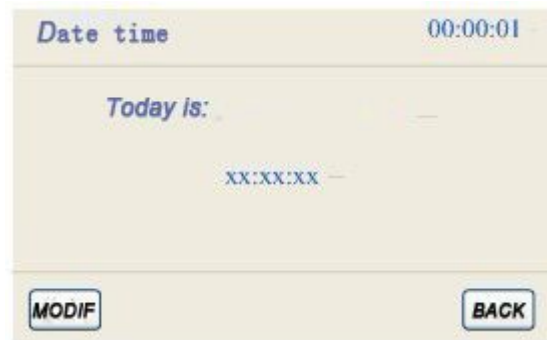
Before using machine,buyers need to collect data of FeMAX and

SUSMAX.after finishing collect,machine will stop.and then back to

main menu.

5. Date time

Click on date time,and go into date time interface. In picture 5



Picture 5

If date time is wrong,buyers may modify it.click on **【MODIF】**, and go into date time interface,in picture 6



Picture 6

You may modify year,month and day and hour and minute and second.Just click on the corresponding number characters.and then adjust to right date time by clicking on or ,after finishing set,click on **【SAVE】** ,and then **【BACK】**

6. Run

Click on Run, and go into Run interface, in picture 7



Picture 7

You may set detecting level of Fe and SUS by clicking on or , for example, if you need to detect small Fe objection, you should make Fe and SUS level lower. Instead, you should make Fe and SUS level higher. level lower. Instead, you should make Fe and SUS level higher.

And click on **【START】**, Machine starts to work and may check products. interface, in picture 8

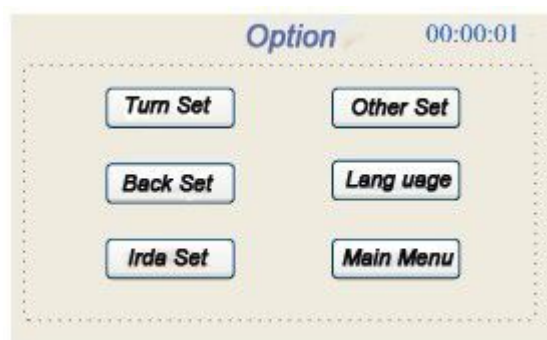


Picture 8

if need to make machine stop to work, please click on **【STOP】**, and then **【BACK】**.

7 Option Set

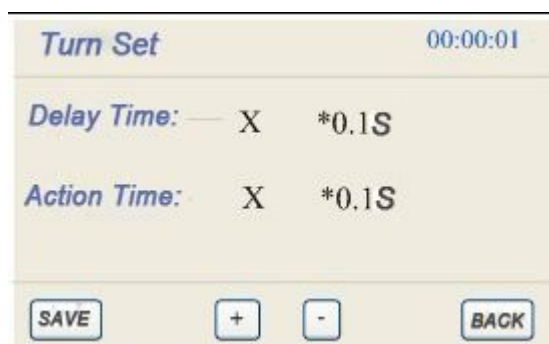
Click on Option, and go into Option interface. In picture 9



picture9

1. Turn set

Click o back set, and go into back set interface. In picture 10

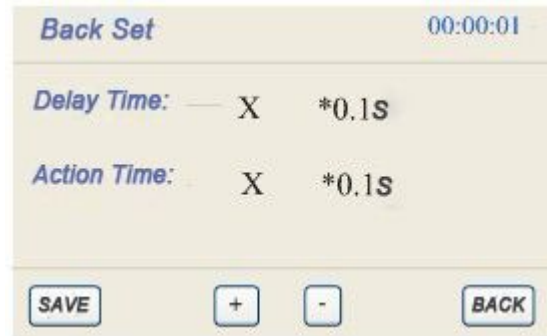


Picture 10

When the defective object through the delay time and from detecting main to delay desk distance control signal. Time to 0.1 seconds as the basic unit, delay time =1 for 0.1 seconds, delay time =100 for 10 seconds. From 0.1 second to 10 second can be adjust. Preset time, such as delay time: behind the number of characters is selected appear reverse , you can click or increase or reduce, click on **【SAVE】** , and then **【BACK】**

二.Back set

Click o back set,and go into back set interface.In picture 11

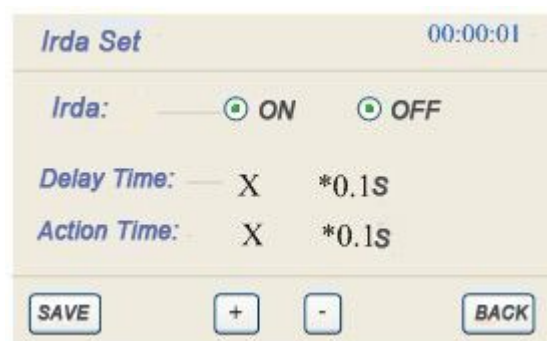


Picture 11

Delay time is spending time of back conveyor belt.unit is second.10=1 second,buyers may adjust time of back conveyor belt as yourself requirement by or .Action Time is spending time of stop when detect metals.after finishing Back Set,click on **【 SAVE 】** ,and then **【BACK】**。

三. Irda Set

Click on Irda Set,and go into Irda Set interface

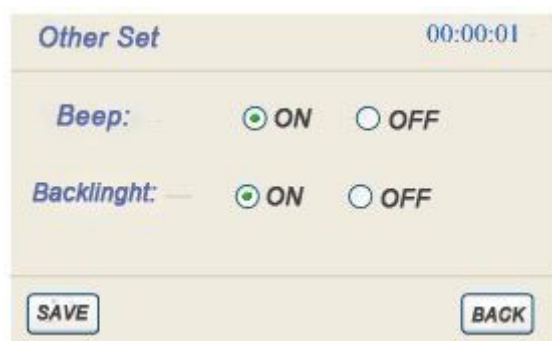


Action Time is time of infrared key to head metal detector.Delay Time is spending time of start infrared cleck until end.after finishing set by

+ or - .click on **【SAVE】** ,and then **【BACK】** .

四. Other Set

Click on other set, and go into other set interface,in picture 12,



Picture 12

【ON】 Beep sound, **【OFF】** Beep won't sound; **【ON】** Backlight work
【OFF】 Backlight don't work, click on **【SAVE】** ,and then **【BACK】** 。

五. Language set

Click on language set,and go into language set interface,in picture13



Picture 13

After you selected language,click on **【OK】** ,and then **【BACK】**

六. Factory Set

Note: Only allow the professionals to modify the parameters

1. Signal detection circuit uses a two-way merger of technology , with high sensitivity and high anti-interference ability.
2. Signals with a dual function.When the metal has passed, the signal indicator will be based on the size of the metal show different induction intensity.
3. . DSP digital signal processing circuit by the finish, easy adjustment, stable and reliable.
4. Effect of regulatory function has the product, Such as sub products, sugar products, salt content of food,will have a similar metal signal to the metal detector.Effect of this product will affect the testing results, , through this function to reduce the effect of Product to Detect better results.
5. . Function to prevent undetected.When there is a lot of metal signal through,the apparatus will automatically detect the signal frequency,implementing agencies at the time action will not have undetected.

6. When there is no detection of objects through, the work equipment in a sleep state, Objects only through testing to be valid.

7. Production line can be connected with supporting the use of, the implementation of automatic detection pipeline.

8. Monitor the use of sound and light alarm, at the same time, exclude or automatically shutdown, the use of an extremely convenient and reliable operation.

9. Through the automatic identification language broadcast technology, the machine can judge mistake by itself control the improper operation.

Detect window height	100 mm	120m m	150m m	180m m	200m m	250m m	300m m	Metal type
sensitivity (mm)	0.6	0.8	1.2	1.3	1.5	2.0	2.5	iron
	1.5	2.0	2.2	2.5	3.0	4.0	5.0	stainless steel
	1.2	1.5	1.8	2.0	2.2	2.5	3.0	lead,aluminum,copper
Detect window width	450 mm							
Airframe materials	All stainless steel, machine weight 200KG							
The use of power	220V 50Hz							
power	120W							
Transmission speed	20-25m/min							
Alarm method	Sound and light alarm, and automatically shutdown, Sensitivity: Free to adjust.							

Warranty:

1、 Since the date of purchase, sales contract and receipt by the invoices or provided by the company can enjoy one year free guarantee service.

2 、 The situation does not belong to free warranty scope:According to the requirements for user operation, natural disaster, improper safekeeping of the damage.Without supplier agrees, disassemble the damage.Manufacturer (suppliers) service hotline:

USER UNIT		PHONE	
ADDRESS		ZIP CODE	
PRODUCT TYPE		PRODUCT SERIAL NUMBERPRODUCT	
SAL UNIT		CONTACT PERSON	
ORDER DATE			
:SERVICE RECORD			

safe use

Metal detectors plug single-phase 220V (ac) three core type, socket, and must be matching up there. (zero ground according to the requirements of local electric power sector security wiring way).