



Needle Detector

Model : NDC-K

User Manual

Notes: Please read this manual carefully before using the machine and keep it for later reference.


Content

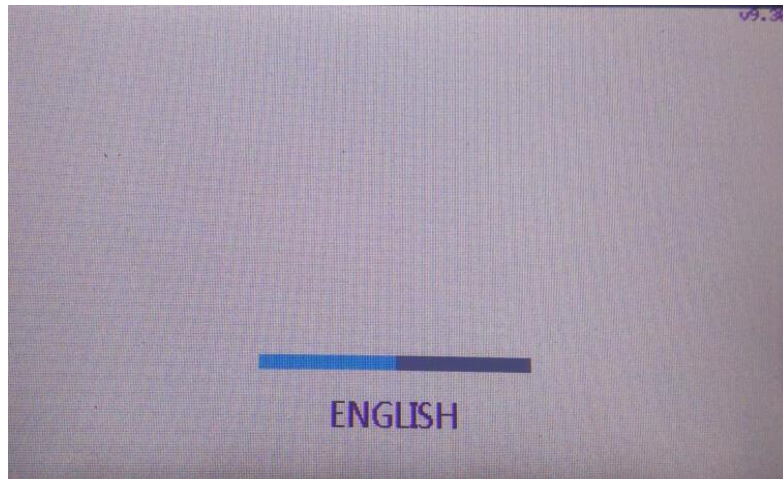
NDC-K Needle Detector Manual

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1. Initialization Interface

When needle detector power on, it access to Initialization Interface, as show in Pic. 1-1. The below processing bar shows version language. Press shift

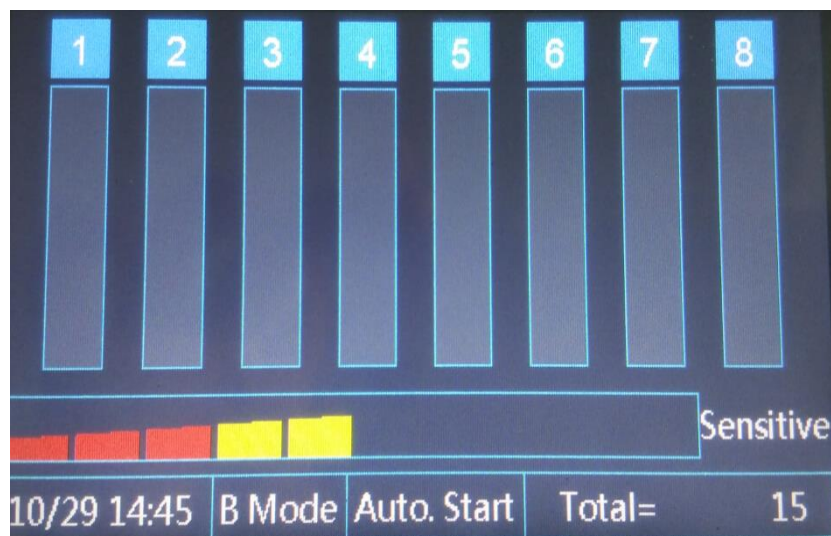
button  to shift Chinese and English language(othe buttons are invalid.)



1-1

2. Real-time Monitoring Interface

After initialization, need detector access to real-time monitoring interface, as show in Pic.2-1. The first row shows signal of 8 channels. The second row shows current sensitivity. The last row is: time(Year/Month/Hour: Minutes) ,B/C mode, Auto. start, total.



2-1

2.1 Sensitivity

Sensitivity means the ferrous diameter in detection products. It is 11 levels. The higher the level, the higher the sensitivity. Level 0 can pass all products without alarm. Level can reject $FE\Phi 1.5\text{mm}$.

Level 4 can detect $FE\Phi 1.2\text{mm}$. Level 7 can detect $FE\Phi 1.0\text{mm}$. Level 10 can detect $FE\Phi 0.8\text{mm}$. As show in Pic. 2.2-1.

Press left and right button  to adjust sensitivity.




2.2 B/C Mode

B mode refers to photoelectric mode. Only when product pass photoelectric can start detection. It is suitable for flat and regular products.

C mode refers to non- photoelectric mode. Needle detector is staying in detection after press start button for 1s. It is suitable for irregular and uneven products.

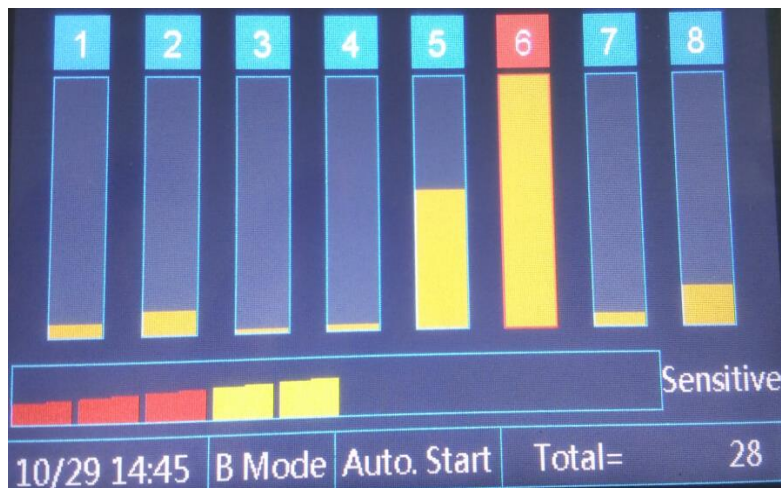
B/C button  is used to shift B, C mode. In B mode, press Shift button

 to shift counting type. Counting type include: Total, NG, Pass. In C mode, counting type is only: Alarm.

Remind: In C mode, Pls wait for 1s to put product after start in order to avoid missing detection.


2.3 Alarm Status

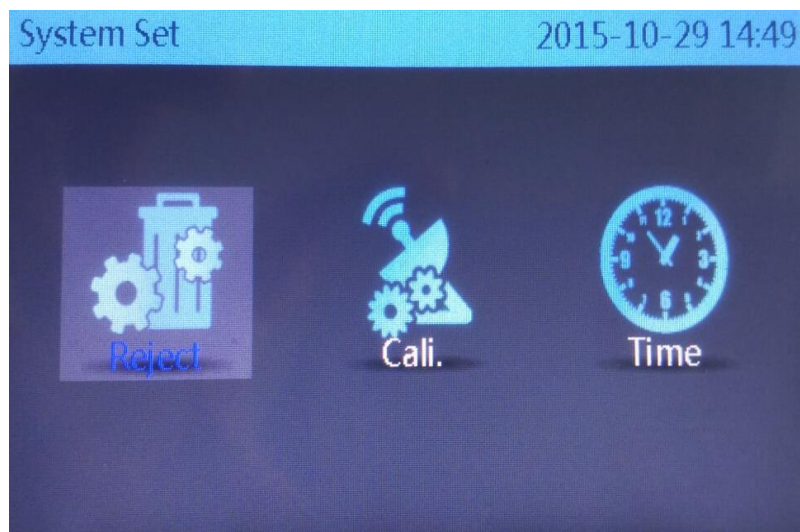
When ferrous in product exceed setup level, needle detector will alarm. As show in Pic.2.3-1. Buzzer warns 5 times, LED light shining, tunnel signal full. Belt running according to user's setup.



2.3-1

3. System Setup Interface



Press setup button  access to system setup interface. Press Shift to  to shift setup menu. Press setup button  again to enter the selected menu. Press return button  to previous interface. as show in Pic.3-1.



3-1

3.1 Reject

Reject refers to belt status when alarmed. It include: Stop, Non-stop ,Reverse ,

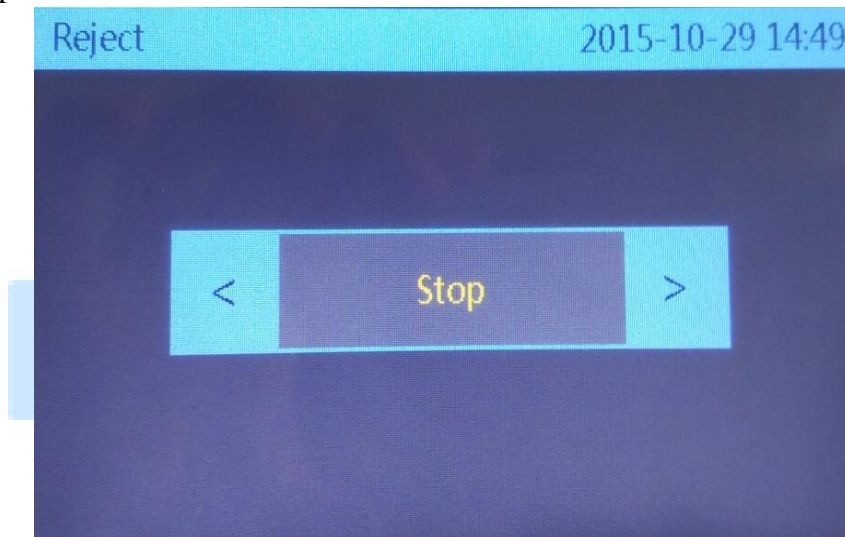
Auto. Start. As show in Pic.3.1-1. Press left and right button   to shift.

Stop means when alarmed, belt stops running.

Non-stop means when alarmed, belt keeps running.

Reverse means when alarmed, belt reverse and stop when product back to original place.


Auto. Start means when alarmed, belt reverse and keep running when product back to original place.



3.1-1

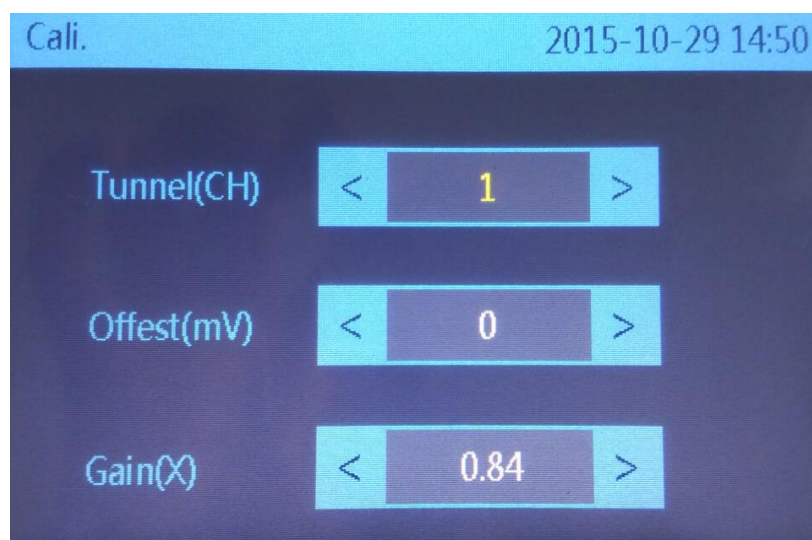
3.2 Calibration

Calibration is to calibrate the sensitivity of 8 tunnels. User don't need to revise as factory has set to the best. As show in Pic.3.2-1. Two parameters : Offest,Gain. Value range is:-200~200 and 0.80~1.20 respectively.

Press shift button  to choose the parameter to adjustment. Press left and


right button ,  to adjust the value. Adjust scope is 10mv and 0.01 respectively.

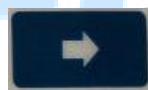
Remind: If product not alarmed when you want it alarmed. Pls increase "gain" to reach your requirement.



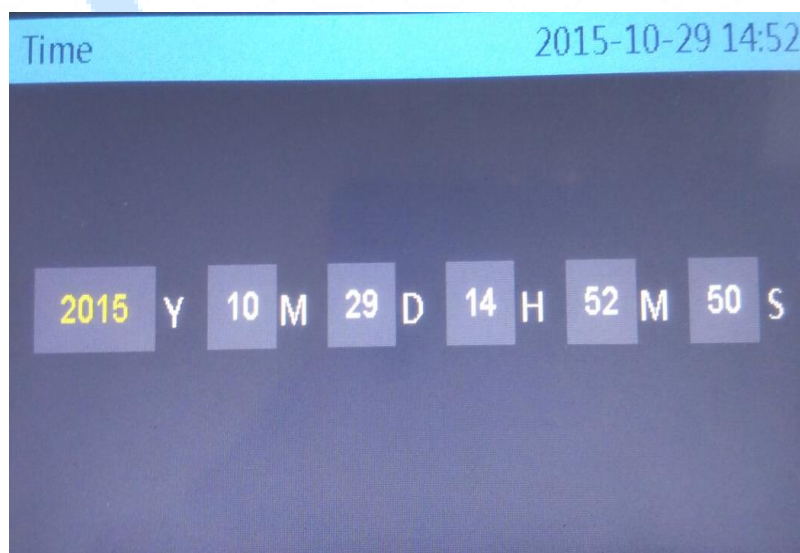
3.2-1

3.3 Time

“Time” is to adjust time. As show in Pic.3.3-1. Press Shift button  to shift the parameters(Year,Month,Day, Hour, Minute, Second). Press left and right button



to adjust the value.



3.3-1

4. Contact Information

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