Product Parts

Main Parts

Host

Remote Controller

Alarm Lamp and Speaker

Wireless Sensor　Metal Sensor

Main Line

Installation kit（Optional）

Electrical Insulation Type

Cable Tie

Screw

AB Glue

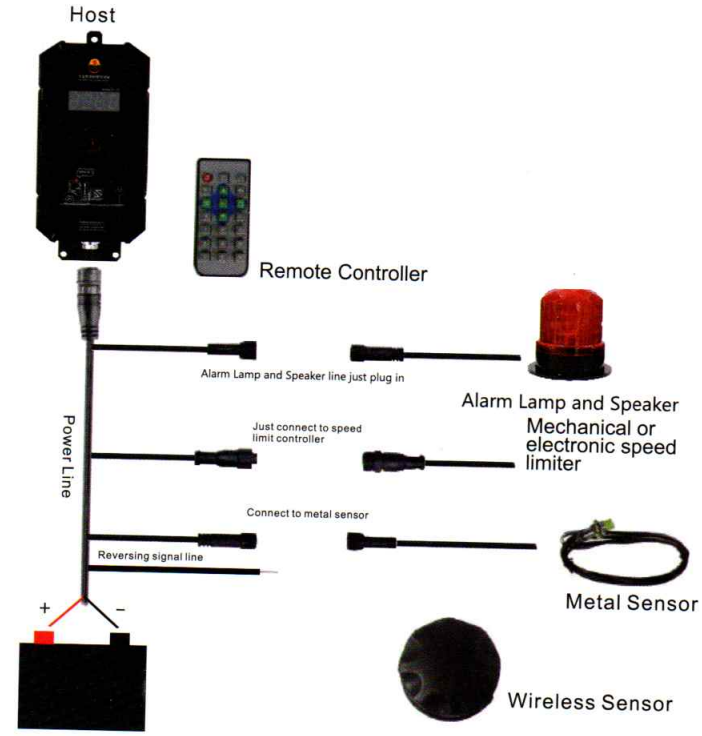
Optional Accessories

Mechanical Speed Limiter

Relay

Electronic Throttle Controller

Installation Logic Diagram



Installation Guidance

1 Host installation

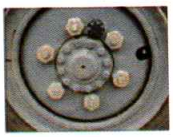
Fixed on the iron prop with screw.

2 Alarm lamp/speaker installation

Use cable ties to fix alarm lamp and speaker directly.

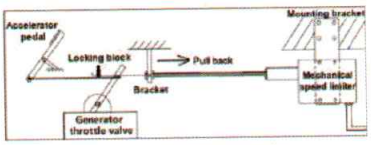
3 Sensor installation

Metal sensor is installed on gear box.



Stick wireless sensor well on rotating device.

4 Speed limiter linstallation



Mechanical throttle speed limiter diagram

5 Routing

Tidy up lines and use cable ties to tie them tightly along the iron stand.

6 Connecting

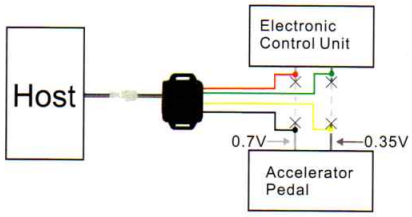
Please refer to the wiring diagram.

7 Debugging

After installation is finished, start forklift to debug.

Electronic throttle controller installation instructions

1. 4P white connector connected to the host device.
2. Find out 2 signal lines of the accelerator pedal, one is about 0.35V, the other is about 0.7V, cut off, connecting wire as shown below.



Definition of 4 signal lines

Color	Function
Red	0.7V signal line, connected to ECU connector
Black	0.7V signal line, connected with accelerator pedal
Green	0.35V signal line, connected to ECU connector
Yellow	0.35V signal line, connected with accelerator pedal

Note: different vehicle type, the voltage signal of accelerator pedal has deviation. The voltage signal can be adjusted through potentiometer(see right picture)

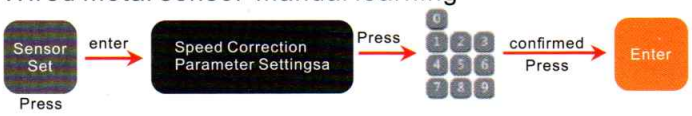
Installation Guidance

Speed Correction Parameter Settings

①Wired metal sensor-automatic learning

Remark: Before operation, choose a 10M straight-line distance.

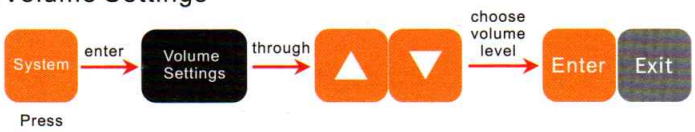
②Wired metal sensor-manual learning



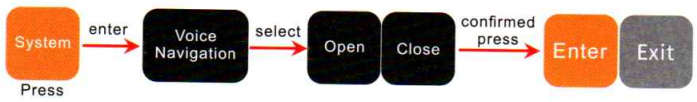
③Wireless speed sensor-wheel diameter settings

System Settings

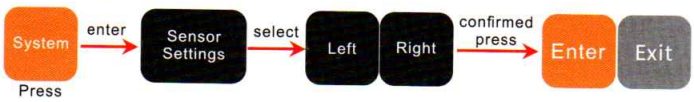
①Volume Settings



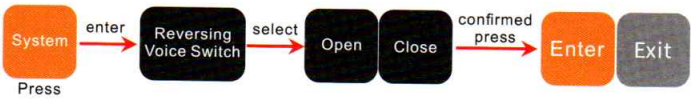
②Voice Navigation



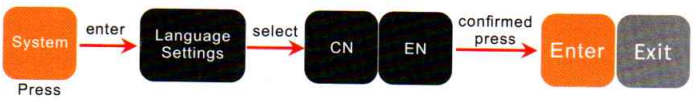
③Sensor Settings



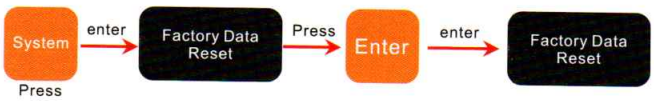
④Reversing Voice Switch



⑤Language Settings

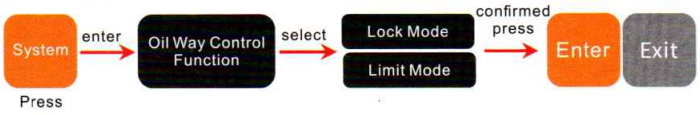


⑥Factory Data Reset



Management Settings

①Oil Way Control Function



Press

Remark:

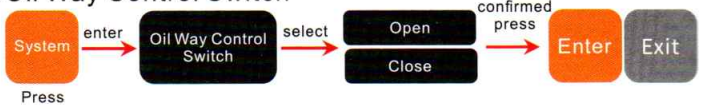
Limit mode: electronic or mechanical speed limit is for option.

Electronic speed limit: after vehicle is over speed, oil-way control relay switches off. After vehicle speed is less than 3-level alarm speed, oil way control relay is closed.

Mechanical speed limit: after vehicle is over speed (running speed over 3-level speed and the distance over 1km), mechanical controller steel wire will shrink and not release until the running speed is less than 3-level speed. (such as applied in diesel vehicle and other motor vehicle.)

Lock mode: after vehicle is over speed and locked, oil way control relay is cut off. Oil way control relay will not close until administrator unlocks it.

②Oil Way Control Switch



Press

Remark:

After closing oil-way control function, oil-way control relay will be closed all the time.

③The way to release the locking alarm

If the host is locked and wrning all the way, use remote controller to release the locking alarm and the warning voice will stop.

Features

1) With high-quality LED display screen. High heat resistance, long life, anti weathering.

2) With the function of reversing voice prompt.

3) With the function of remote control setting, available to set within one meter.

4) 10 levels of volume for adjustment.

5) External powerful speaker for alarm, warning sound up to 120dB.

6) Two kinds of warning: Flash lamp and voice alarm.

7) Three-level speed setting. Different levels of speed has different sound for warnings.

8) Alarm locking time can be adjusted from 0 to 99 seconds. If the speed of forklift exceeds the preset speed, will warn automatically.

9) Waterproof capability is IP65, even able to work well in rain.

10) Adopt relay to control oil circuits, realizing overspeed locking and speed limit control. Mechanical speed limit can be used together with mechanical throttle speed limiter.

11) Operating voltage: DC12V ~48V(48V is customizable).

12) Working temperature: -20~60℃.

Operation Notice

◆ Remote operation needs to be done within 1 meters.

◆ Speed correction parameters must be correct and accurate, otherwise, speed measurement will be inaccurate. Pay attention to the battery working hours or battery indicator, and replace the battery timely.

◆ The locking time and warning rate should be set according to the application environment (for example, locking time is 6; two-level speed is 8; three-level speed is 10).

◆ Other functions must be very clear before setting, or the problems caused by the setup error could result in unnecessary loss.

After-sales Service

◆ Specialized technical engineers give installation guide in the whole process.

◆ Professional technical customer service staff will give you long-term service with any problem consultation. (During the use, welcome your telephone consultation for any problem encountered. We will serve you patiently.)

◆ If you have any suggestions or dissatisfaction for our service, just tell our technology or repair department manager.

◆ For the problems of user complaints, after verification if it is our responsibility, we will give punishment to managerial staff and handling personnel and apologize to users. If it is not our responsibility, the relevant staff will make explaination to users, and hope that users can give us the greatest support.

FAQ

Q: Why is there no speed when I drive?

A: What kinds of sensor do you use, wireless or wired?

1. Wireless sensor: the host machine needs to be paired with the wireless sensor to establis

Solution: Keep wireless sensor stationary more than 30 seconds (if placed in the car, do not start the vehicle). Aim remote controller at the host infrared receiving window, input "666666"and press "Enter", the host will sound "di". Shaking sensor 10-20 seconds, the host will remind you whether setting is successful o failed. If failed, please re-operate.

Note: if internal battery of sensor is low power, that may cause no signal.

2. Wired sensor: the sensor needs to receive the signal.

Solution: When installing the wired sensor, sensor head and gear are spacing within 2 mm, use a screwdriver to twist 1/4 turn to adjust the distance. Pay attention, not let the gear touch the sensor head, so as not to cause damage.

Q: The actual speed and display speed vary widely.

A: Is the sensor you use wireless or wired?

1. Wireless sensor: please use a meter ruler to measure the wheel diameter, convert unit into centimeter. Aim remote controller at the host infrared receiving window, press "sensor set "button and then input the data you measured and then press "Enter" button to save.

2. Wired sensor: first, measure a distance of 10m by meter ruler and drive to the starting point. Aim remote controller at the host infrared receiving window, press "sensor set "button and start the vehicle driving to the end. Press "Enter" to record data.

Q: Why is mechanical speed limit device ineffective?

A: 1. Check whether the host machine and mechanical governor control line are connected well.
2. The host is set at speed limit mode. Press "Management" on the remote controller →oil circuit loop function→ speed limit mode→ "Enter".

Q: I want to adjust the alarm speed, where is for alarm speed adjustment?

A: Press "Alarm Set" button→ first level alarm speed, input the speed you want to set→"Enter" button. The second and third level of alarm speed setting is in this same way.

Q: I move forward, why does it prompt "Reversing, attention please"?

A: This is because our sensor is set on the left side of the wheel by default. You may install the wireless sensor on the right side of the wheel.

There is no need to move the sensor. Press "System" button on the remote controller→ sensor position→ right side→"Enter" button.

Q: Why does it prompt "Reversing, attention please" when powered?

A: Check whether the reverse signal wire is connected to the ground wire.(reverse line can not be directly

Q: Why is there still no voice prompt when reversing even reverse signal control line is connected?

A: The actual reverse signal is high level or low level?

If it is high level, use remote controller to input "335533", press enter to confirm. Then the host will sound "di", input "4", active high level.
If it is low level, use remote controller to input "335533", press enter to confirm. Then the host will sound "di", input "3", active low level.

Q: Why is the alarm sound small?

A: Volume is set too small.

Please press "System" button on the remote controller → volume setting→"Enter", to adjust the volume level.

WT SAFE

Quality Warranty Card

Model Number: _____ Customer Name:_____

Production Number : _____ Customer Address:_____

Date of Purchase: _____ Customer Phone:_____

Purchase Company:_____ E-MAIL: _____

Company Phone:_____ Post Code:_____

Please fill out the above information carefully.

Warranty Instruction:

Sincerely thank you very much for purchasing our products of vehicle safety management system. After-sales service will be provided for you by Waytronic.

To protect your rights and interests, our conmpany has made the following after-sales service policy. Please read carefully.

◆ The unified warranty period of our products is one year. However, these are not in the warranty range, including man-made damage, self demolition, natural disasters, damage caused by force majeure. The material components and parts cost will be charged for the consumptive parts and other parts out of warranty.