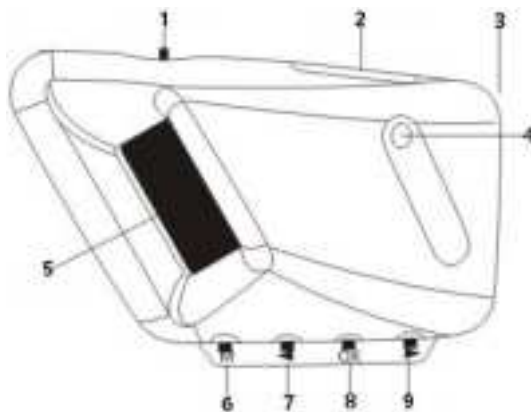# Car Smart Digital Meter

(Model: P8)

Thanks for purchasing our car smart digital meter. This product connects car OBD2 interface by OBD cable, and display the driving dates, e.g. vehicle speed, engine RPM, water temperature, fuel consumption,voltage etc. It can keep the driver's eyes always on road to avoid the dangerous of lowering down head to read the dashboard. This product won't change any car ECU dates.

Kindly Attention:

(1)OBD2 mode working voltage: 11V~18VDC (12vdc/200mA), when voltage is higher than 24v, please use a USB cable for GPS mode.

(2)This product is a dual system: After power on, select the language and system you are familiar with, press the '>' key to select OBD or GPS system, and automatically enter the last selected system after 5 seconds of inactivity

Button and port functions

Short press: press once to release

Long press: press for 2 seconds, then release after the display screen changes

1. Power switch
2. OBD line and USB line interface
3. A-pillar tie port
4. Photosensitive components: sense the intensity of external light and automatically adjust the brightness to adapt to the environment
5. LCD screen
6. Short press 'M' button: enter the setting menu, short press again to exit the setting
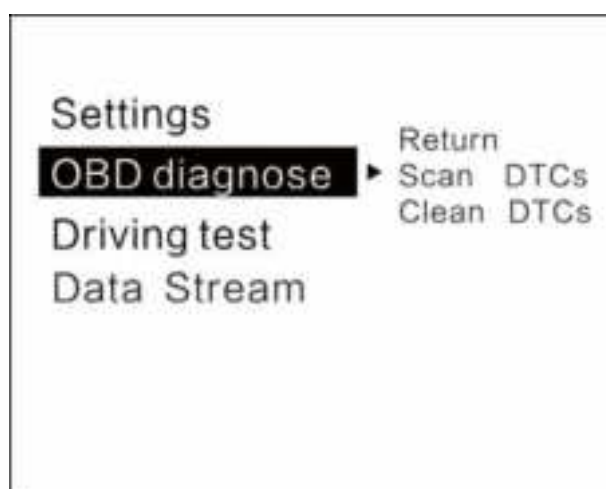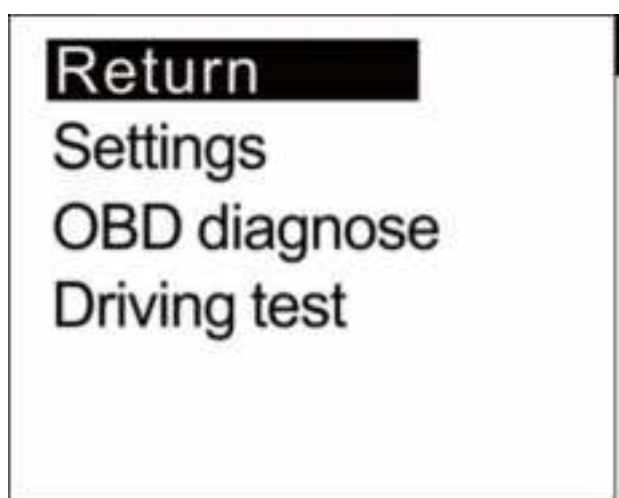
7. Short press '<' button: (1) Switch language and system when first used

(2) Switch function display after normal display

(3) Decrease the menu or parameter value after entering the setting

8. Short press 'OK' button: (1) Select function

(2) After normal display, switch the display screen,

Long press 'OK' button: (1) Enter settings

(2) After adjustment, press again for 2 seconds to save and exit

9. Short press of the '>' key: (1) Switch language and system when first used

(2) Switch the left function display after normal display

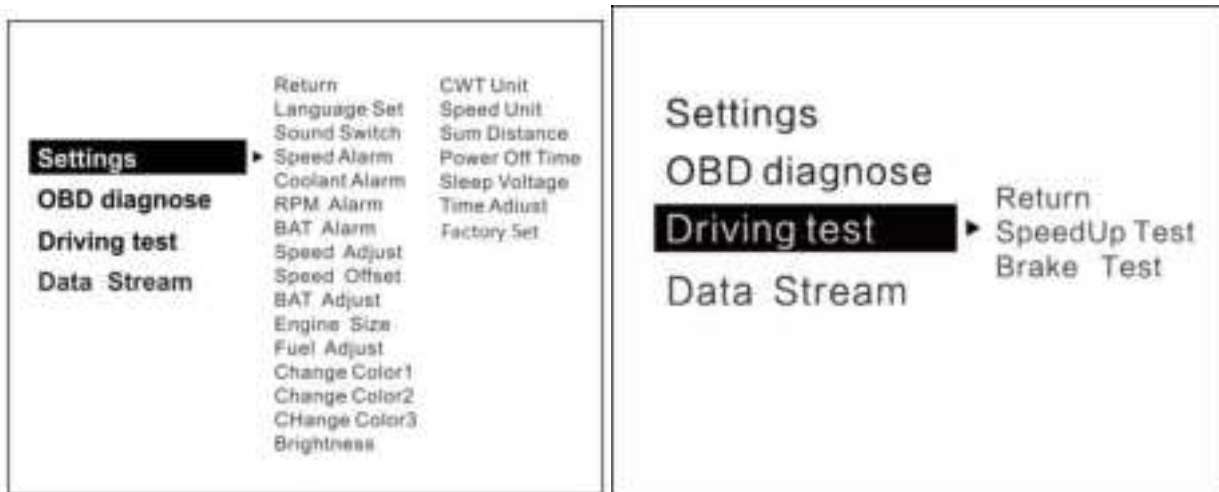(3) After entering the setting, increase the menu or parameter value

Functions Abbreviations:

ECT - Engine Coolant Temperature	VLT - Voltage	FUE - Fuel Consumption
RPM - Revolutions Per Minute	TIM - Local time	MIN-Driving time
DIS - Driving Distance	MAP - Intake Pressure	OIT - Oil Temperature
A/F - Air-fuel Ratio	TCP - Turbine Pressure	PSI - Turbine Pressure
RTC - Real-Time Clock	ALS - Altitude	GPS - GPS satellite numbers
DIR-driving direction		

Setting Mode(Menu mode)

Long press 'OK' button for 2 seconds to enter the setting item, press the'>' button to increase the menu option, short press the 'M'button again to enter the parameter value, short press the'>' or'<' button to adjust the parameter value, short press 'OK' button Confirm and return to the menu, press and hold 'OK' button for 2 seconds to save and exit

Language Set: (EN-English / CN - Simplified Chinese/ TW - Traditional Chinese)

Screen angle setting: four-segment screen rotation 0-90-180-270

Sound Switch: turn on/off the buzzer

Speeding reminder: alarm when the vehicle speed reaches the set default value of 150KM/h, the setting range is 5-200km/h

Engine temperature alarm:its default value 120 degrees C,range 50-200

Engine speed alarm:its default value of 6000r/min,range 1000-8000

Voltage alarm setting:its default value of 10.5v,range 10.0-15.0v

Speed adjustment:the operation is required only there is an error(e.g. instrument display 100 Km/h HUD shows 105Km/h,use default value 107-5=102)

Speed zero:the vehicle speed does not return to 0 after the car stops
(E.g. speed display 5Km/h,please adjust HUD to 6Km/h)

Voltage adjustment: Fine-tuning when voltage is wrong with instrument panel voltage
(If the device shows 0.2V above the meter voltage, the device is adjusted to 98%)

Engine displacement: please adjust if there is too much deviation on the fuel consumption
(E.g. make parameter value to 3.6L,if your car displacement is 3.6L)

Fuel consumption:making a fine-tuning if there is an error
(If the device shows 0.2L above the meter voltage, the device is adjusted to 98%)

Backlight brightness: Auto automatic light sensitive, 1 for the darkest, 8 for the brightest

Temperature unit: °C-Celsius °F-Fahrenheit

Speed unit: Km/h: km, MPH: Miles

Count mileage: total mileage synchronization(Keep it as same as dashboard,ex:odometer shows 30010km, adjust the parameter value to 30010km)

Shutdown delay setting: the default is 10 seconds to shut down, when it is turned off while driving, it can be adjusted to more than 180 seconds

Shutdown voltage setting: adjust to 13.2V or 13.6 voltage shutdown mode when unable to shutdown RPM is the default speed for shutdown, COM is the automatic start-stop mode and special mode for hybrid electric vehicles

System time adjustment: it can be adjusted to local time, the default time is China time (GMT+8)

Factory reset: the system restores to the factory preset values. After selecting this operation, press the 'M'button to confirm

Driving test

Acceleration test: kilometers acceleration refers to the seconds 0 to 100km/h,is a test of car power
Brake test: the time and distance taken of a brake after the speed >100 , is a test of brake performance

Troubleshooting settings

Scan fault code: Scanning the car for fault codes
Clear fault code: Short press 'OK' to clear the fault code when the car has fault code
Read the data stream: Show all the data in the car engine

Please note

It is recommended to unplug the device if your car doesn't been used for more than one week.

OBD2 FAQ:

1.No function is displayed,no power
Check whether the OBD cable is tight connection,pull down repeatedly to confirm,please try it on another car if still not workable,analysis if it is an error from OBD diagnostic interface,if yes,please repair it and connect the device again.
2.Only the car voltage displays and be automatic power off after 30 second
This product is only applicable to OBDII and EOBD in OBD2 mode
Automobile production year (OBDII and EOBD were only used in other regions after 2003 and 2007 in other regions)
The OBD2 mode of this product does not support OBD I and JOBD
Please switch to the GPS system and use the USB cable to display, short press the '>' button within 5 seconds of powering on to select the GPS system.
3.The vehicle speed on HUD is not as same as speedometer's
(1) Please check that the unit is correct KM/mile MPH, (speed unit switch please refer to the settings)
(2)After booting up and displaying normally, press and hold 'OK' button vertically for 2 seconds to enter the system settings, press'>' to switch to the system settings, select the speed error adjustment for fine adjustment (e.g. meter displays 100 Km/h,device shows 105Km/h,use default value 107-5=102).
4. There is an error on fuel consumption
(1) Checking your car displacement and make sure that the engine displacement of the device is as same as your car's(e.g. car is 2.0L,please set parameter value to 2.0L)
(2) if the displacement is the same, you can also do a fine-tuning settings(e.g. equipment fuel is higher than 0.2L,please set the parameter to 98%) Recommended: fine-tuning is optional since it is a real data from car computer
5.The device can not auto power off
Adjust the sleep voltage to 13.2V or 13.6V, then HUD will power off in 3 minutes.

6.Auto start- stop cars

The shutdown voltage setting in the system settings is adjusted to the COM mode, the automatic start-stop and the special mode for gasoline-electric hybrid vehicles

7. Automatic start-up will auto off when step the brake and same situation on Hybrid car in the traffic.

(1) Setting to COM mode(in the menu of shutdown voltage)

(2) Setting shutdown delay to 300 seconds,so that it can turn off after 5 minutes

(3) Please switch to the GPS system(Short press the '>' button within 5 seconds to select GPS system)

8.Wrong operation lead to crashes

(1)Does the OBD2 interface use other OBD equipment (position, tire pressure monitoring, drop lock, lift window folding, ELM27)

(2)Modified and retrofitted (central control navigation electronic throttle accelerator fixed speed cruise brushed computer system

(3)One-button start, button-less entry, remote start) will cause crashes, unplug other OBD devices and use the product directly, to restore factory settings (see the setting table for details)

(4)Long press 'OK' to enter the setup menu, short press '>' to switch to system settings, short press 'OK' to enter system settings, short press '>' to switch to factory settings, and short press 'OK' to confirm

(5)If you haven't solved it, please switch to GPS system and use USB cable for display., Press the '>' button within 5 seconds to select GPS system

GPS FAQ；

1.The screen without any display,and no power

Start the car engine;check if the cable line is tight;or connect the USB to the computer to check

2.Without car Speed

After HUD power-on, the GPS will start to find the satellite. Please drive the car to the road. It will work once gets more than 5 satellite signals.

3. Cannot be turned on automatically or repeatedly extinguished during driving

Please use the USB cable to insert the cigarette lighter

If you use the OBD cable, change the sleep voltage to 13.0V or 12.8V

If use the USB cable, make the sleep voltage off.

4.Inaccurate time

Enter the setting items: system time adjustment, Press '>' to adjust the time zone time, after adjustment, long press 'OK' to save and exit

5.Speed is not correct

(1) If the unit is correct,km KM/mile MPH, (speed unit switch reference settings item)

(2) The car factory had increased speed(5-7%)than real for drivers' safety,satellite data is strictly follow the international standards

(3) Fine-tuning the vehicle speed, e.g. meter display 100 Km/h, machine display 105Km/h,default value 107-5=102

6.Driving direction display error

After the vehicle speed exceeds 5KM/H, the direction can be displayed normally.

7.Speed is still on display after the car stops

Satellite drift will be caused in underground parking,tunnel,overpass or blockers,please drive your car on open road,then this situation can be solved after the satellite numbers >5

8.HUD cannot be automatically shut down after car stopped

(1) HUD can be shut down in 3 minutes(in OBD mode)

(2) If not in 5 minutes,set item shutdown voltage to 13.5V or use the USB cable