

Omni Real Time Positioning GPS Locator

What are the features of M504DWQ GPS locator?

1. Exact Positioning: single positioning mode and continuous positioning mode supported;
2. Position assisted with GPS, GLONASS, BeiDou, Galileo, WIFI;
3. Alarm: Anti-theft, geofence, vibration detection, overspeed, power off or power failure;
4. Remote oil cut, keep checking the real state of vehicles;
5. Apply to Cars, Motorcycles team, Bike sharing, Buses and Taxis and Fleet management.

More functions:

Network Communication: through server command, track your vehicle at anytime, anywhere

Bluetooth: parameter setting and system upgrades of the vehicles locator can be done through bluetooth

OTA Upgrade: this [gps locator](#) supports firmware upgrade and parameter setting through server

Monitors of vehicles:

- There's an acceleration sensor in the locator, which can detect abnormal vibration of the vehicle and report to the server;
- When the vehicle falls to the ground, the locator will report to server;
- Vehicle faults can be reported to the server through IOT (serial port communication, supported by the controller)

Communication interface (optional): Level control or serial communication

for choice

More details of the GPS tracker

Prevent over-speed, standardize driving behavior!

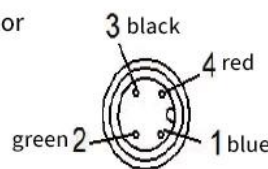
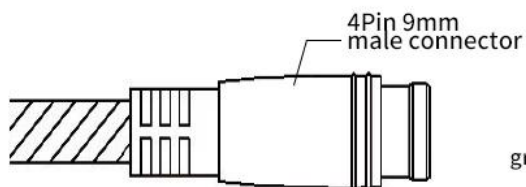
SEEWORLD S102A can standardize driver's driving behavior through over-speed alarm and the driving behavior analyse in WhatsGPS platform.



WIRING INSTRUCTIONS

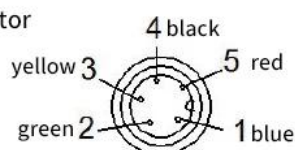
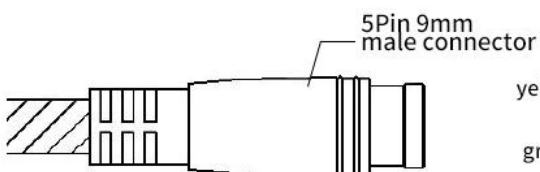
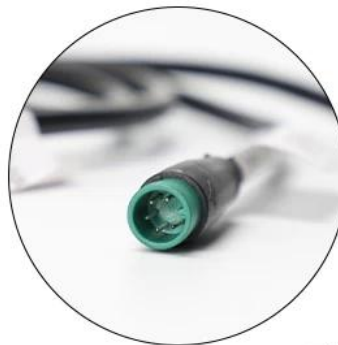


Level control line
interface definition



- | | | |
|----|-------|-----|
| 1. | blue | EN |
| 2. | green | IN |
| 3. | black | GND |
| 4. | red | VCC |

Serial communication line
interface definition



- | | | |
|---|--------|-----|
| 1 | blue | EN |
| 2 | green | TX |
| 3 | yellow | RX |
| 4 | black | GND |
| 5 | red | VDD |

MAJOR PARAMETERS



Communication with Controller

Level control/serial port

Communication with cloud server

MQTT

Vibration detection

Three-axis accelerometer

Built-in battery

3.7V/90mAh

Working voltage

9-100V DC

Working current

$\leq 500\text{mA}$ (9-100V DC)

Working temperature

$-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$

Storage temperature

$-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$

Working humidity

10~93RH

Built-in battery life

>0.5h (25°C)

Waterproof& dustproof

IP67

Outside shell material

PC+10%GF

SIM card

Micro size (Micro-SIM)

Dimension of the device

LxWxH: 109mm × 58mm
× 21.2mm (not including the wire)

Location

Support GPS,GLONASS, BeiDou, Galileo, WIFI assistant location system

Location precision

$\leq 15\text{meters}$ (Open area, weather is sunny without shade.)

Location condition

Search satellites numbers ≥ 4 satellites and signal noise over 30dB

Starting time

Cold startup less than 120seconds, Warm startup less than 30 seconds, (Open area, weather is sunny without shade, including coordination optimization)

Sensitivity

-158dBm