

Two-wheeled Intelligent Product WA-290B



WA-290B- new national standard is a GPS positioning control for e-bike control. It has GSM network remote control, 433M remote controller, GPS real-time positioning, Bluetooth communication, vibration detection, anti-theft alarm and other functions. Through GSM and Bluetooth, the GPS terminal can interact with the background and mobile APP to control the e-bike and upload the real-time status of the e-bike to the server.

Functions:

- Starting the e-bike without the keys
- One-button lock/unlock the cockpit lock
- Bluetooth control e-bike
- One-click start
- Electricity detection
- OTA upgrade

Specifications:

Dimension	(54.±0.15)mm × (67.5±0.15)mm × (33.9±0.15)mm	Working Voltage	DC30V-72V
Waterproof level	IP65	GSM frequency	GSM 850/900/1800/1900MHz
Tracking sensitivity	<-162dBm	Working temperature	-20 °C ~ +70 °C
Working humidity	20 ~ 95%	Maximum Power	1W
Start time	Cold start:35S, Hot start: 2S	SIM	Micro-SIM
Bluetooth version	Bluetooth 4.1	Maximum receiving distance	30m, Open area
Central Frequency Point	433.92MHz	receiving sensitivity	-110dBm

Functional Description

Function list	Features
Lock	In lock mode, if the terminal detects a vibration signal, it generates a vibration alarm, and when the rotation signal is detected, a rotation alarm is generated.
Unlock	In unlock mode, device won' t detect the vibration, but the wheel signal and the ACC signal are detected. No alarm will be generated.
Uploading data in real-time	The device and the platform are connected through the network to transmit data in real time.
Vibration detection	If there is a vibration, device would send out a vibration alarm, and buzzer speak-out.

Wheel rotation detection	The device supports the detection of wheel rotation. When the E-bike is in lock mode, the wheel rotation is detected and the alarm of wheel movement will be generated. At the same time, the e-bike won't be locked when the wheeling signal is detected.
ACC output	Provide power to the controller. Supports up to 2 A output.
ACC detection	The device supports detection of ACC signals. Real-time detection of the e-bike's power-on state.
Lock motor	The device send a command to the controller to lock the motor.
Buzzer	Used to operate the vehicle through the APP , the buzzer will sound a beep.
Induction lock/unlock	Turn on Bluetooth, the e-bike will be power on when device is nearby E-bike. When the mobile phone is away from the E-bike, the E-bike automatically enters the locked state.
BLE lock/unlock	Mobile phone can control the device by BLE directly without GSM network.
433M Remote	The 433M remote control can be used to remotely control the lock, unlock, start, and finding e-bike. Long press the remote control unlock button 1S to open the saddle lock.
External power detection	Battery voltage detection with an accuracy of 0.5V. Provided to the backstage as the standard for the cruising range of e-bikes.
Saddle(Seat) lock	Long press remote unlock button 1s, unlock seat lock.
Over speed alarm	When the speed exceeds 15km/h, the controller will send a high level signal to the device. When the device gets this signal, it will emit A 55-62db (A) sound.