

GWANZI®

**PERMANENT MAGNET
VARIABLE SPEED
BOOSTER PUMP**

K90S600L

1 YEAR
FACTORY
WARRANTY

Constant Pressure

Adjustable Pressure

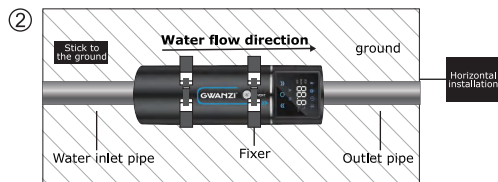
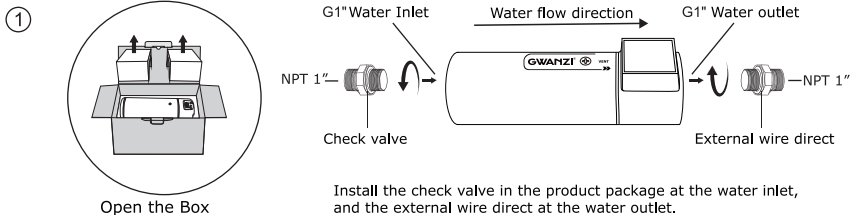


SmartFarIntl

**DOWNLOAD THE APP
WATCH THE INSTALLATION VIDEO**

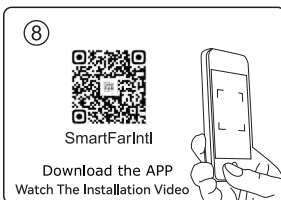
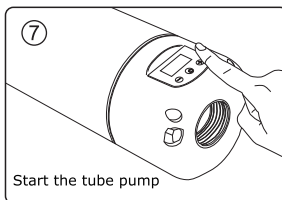
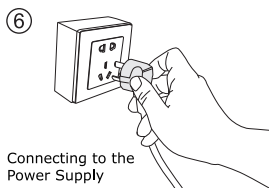
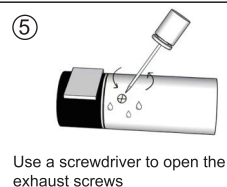
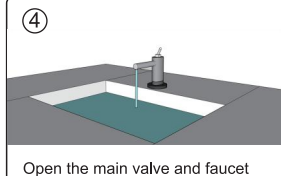
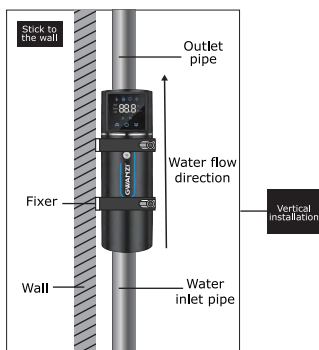
1. Installation tutorial

Please prepare relevant tools before installation, and check whether accessories, instructions, etc

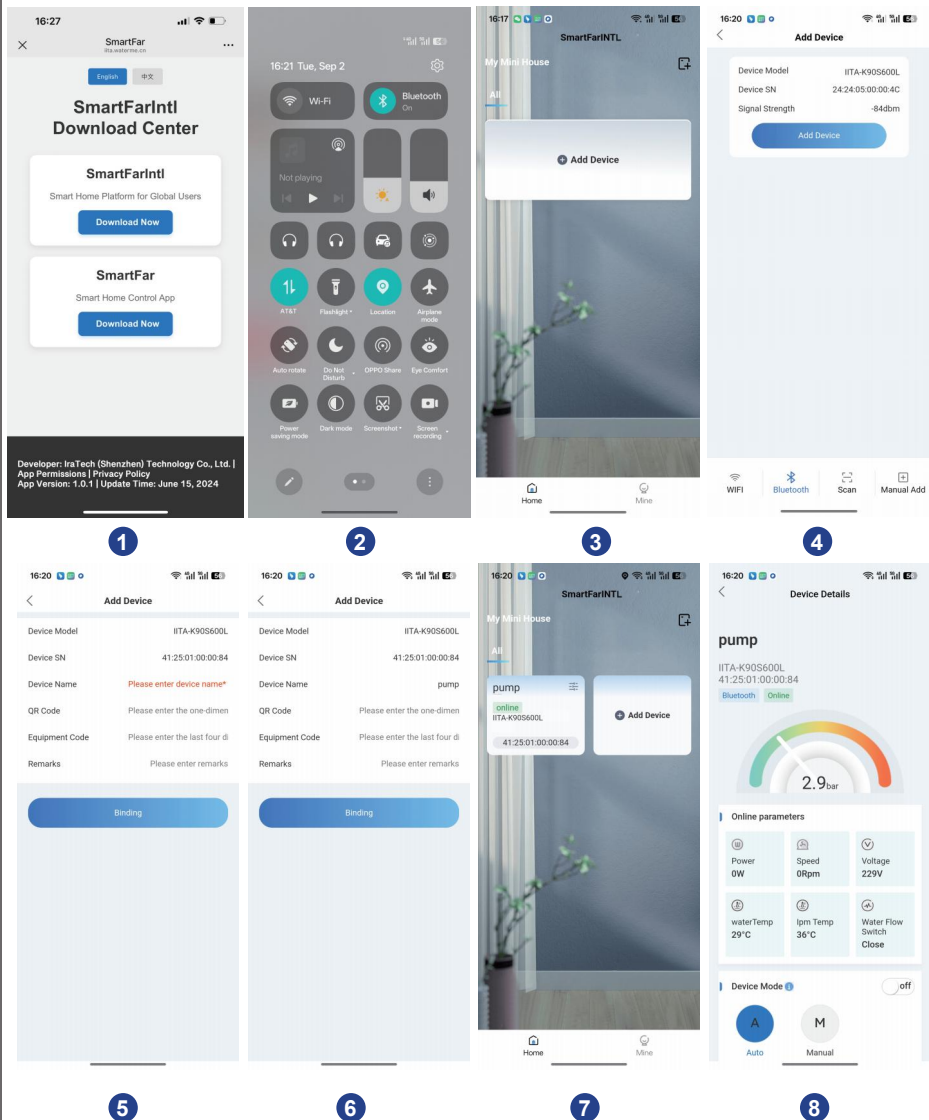


⚠ Select the installation method according to actual needs

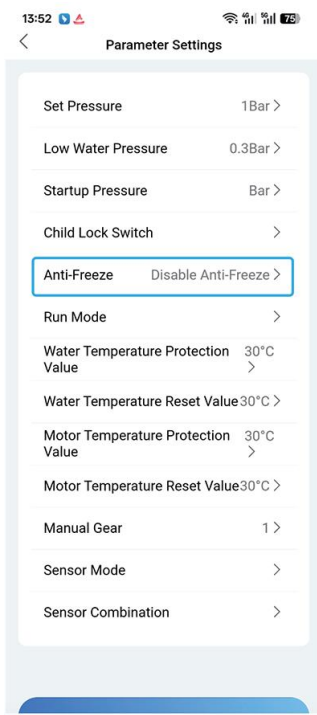
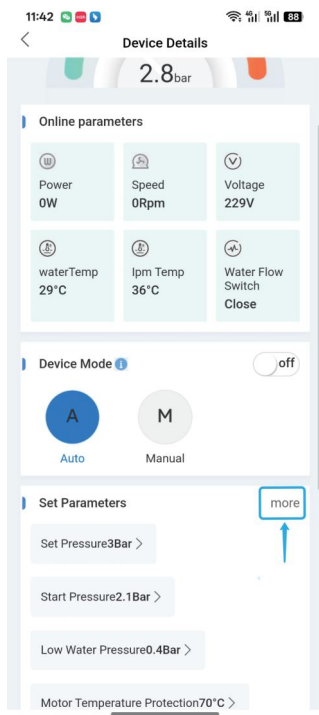
⚠ Install the fixture and make sure it is firmly installed without shaking.



2. App connection



3. Antifreezing function



4. Installation precautions

- GWANZI smart converter pump can be installed indoors and outdoors, if suspended and no power, please empty the water in the pump to take sunscreen and anti-freezing measures, can effectively extend the service life.
- The installation site must have drainage facilities to prevent water from leaking pipes. Pipe pump should be installed in the children can not reach the place, and do isolation protection.
- Because this product will be accompanied by slight vibration during the work, please firmly fix the product in the riser or suspended installation to avoid loose.
- This product is recommended to be installed close to the liquid to be pumped to minimize head loss.
- When installing this product, we suggest adding a loose joint at the inlet and outlet of the pipe pump to facilitate future overhaul and maintenance.
- This product can not be installed in the six-sided metal closed chamber, will block the wireless communication signal connection.
- This product contains high voltage electricity, the water pump must be cut off during installation and maintenance. Please do not disassemble and repair without permission, otherwise the damage caused by the company will not be responsible.



Do not connect the pipe pump to the power supply before installation. Ensure that the pipe pump does not accidentally connect to the power supply to prevent personal injury caused by electric shock



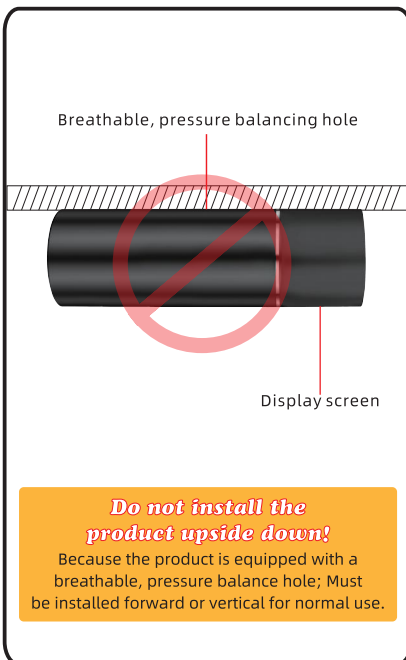
Do not use this product for transporting flammable and explosive liquids



Do not use this product to transport toxic and harmful liquids



Do not use this product for transporting corrosive liquids



5. Display description

Pipe pump installed, connected to the power, you can start.

Note: 1. Before starting the pipe pump, please confirm that the power connection is correct and reliable, the voltage conforms to the parameters, and the inlet and outlet pipes are sealed and connected.

2. After the pipe pump is installed correctly, loosen the screw of the vent hole for more than 2 minutes in the case of power failure. After the gas is discharged, tighten it again and then power on.

Flow switch light:

The display light is on when the flow switch is on

Child lock light:

Button child lock open display light on

Running light:

The display lights up when the device is running

Connected display light:

The display light will turn on when connected to Bluetooth

Real time:

On indicates the real-time pressure when the device is running

Start:

On indicates the startup pressure set for the device

Settings:

On indicates the setting pressure set by the device

Up:

Increase pressure in automatic mode/Increase gear in manual mode

Down key:

Reduce pressure in automatic mode/Reduce gear in manual mode

A:

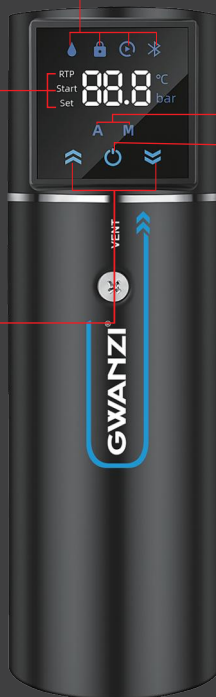
The indicator is on in automatic mode

M:

The indicator is on in manual mode

Power button:

Short press to start/pause pipe pump operation
Press and hold to switch manual/automatic mode



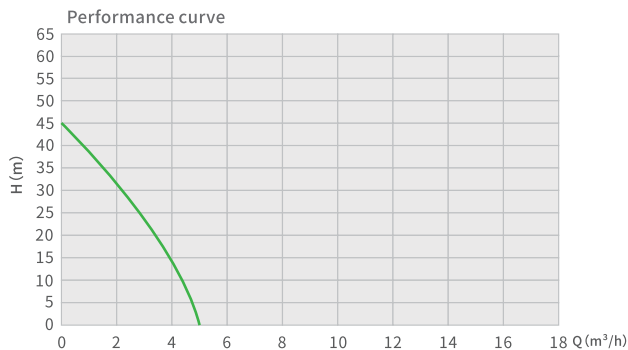
6. Mode description

Function description	
Automatic mode	1. Automatic starting function: When the real-time pressure is lower than the starting pressure value, the water pump starts. 2. Automatic stop function: After shutting off the water, the pump will automatically stop when it detects no water. 3. You can press the open key to stop the machine in an emergency. After the machine stops, you need to press the open key again to restore the normal automatic mode.
Setting pressure	Set the starting pressure value
Manual mode (emergency)	1. In manual mode, you can manually start or stop the water pump as required. 2. The incoming water status cannot be identified when the manual mode is running, so it is recommended to use it in emergency and turn it off or switch to automatic mode immediately after it is used up.
Child lock	Automatic lock key when no operation, to prevent children from touching by mistake.
Water shortage protection	When the water inlet pressure is lower than the set water shortage pressure (the detection time is about 1 minute), the pipe pump enters the water shortage protection mode, and the fault code is E12. 10 minutes later, the influent status was tested again. If water shortage is detected again, the inflow status will be detected again 30 minutes later; if water shortage is continuously detected, it will be automatically detected every hour thereafter. In the water shortage protection mode, the automatic inflow mode will be restored halfway.
Automatic maintenance	In the static state, the water pump sleeps and automatically runs for 10 seconds within 24 hours for self-check and maintenance.
Operating instructions	
Automatic mode	If you are in manual mode, press and hold the on-off button. When the b word disappears, the automatic mode has been switched. Automatic mode, with automatic start-stop function, you can set the pressure value operation. (Note: Display rotation indicates running, no rotation indicates)
Setting pressure	After entering automatic mode, the real-time pressure value is displayed. After pressing the +/- key, the C+ setting pressure value is displayed. Press the "-" key once to reduce the pressure setting by 0.1bar, and press the "+" key once to increase the pressure setting by 0.1bar. After setting the pressure value, no operand seconds, automatically save and exit; You can also press the on key to save and exit.
Manual mode	1. After entering the automatic mode, press and hold the on key. When b is displayed, the manual mode is switched. 2. Start manually. (in the stopped state) press the open key to start the water pump. The water pump can switch gears and b+ is displayed. The selected tap, for example b01\b02\b03. 3. Manually shut it off. (In running state) press the open key to stop the water pump. (Note: b blinking means running, b stationary means stopped running)
Child lock	When the device is powered on, the child lock protection will be automatically opened after 3 minutes of operation. Any setting operation cannot be performed when the child lock is open. The child lock must be removed first. At the same time, press +, - key to lock or unlock, the screen displays  indicates that it is locked.

(If there is no response when pressing the button, please release the child lock first and then proceed with the operation)(Default state of last operation on startup)

7. Fault Code Description

Fault code		Fault problem	Fault cause/handling method
E01	01	Overvoltage protection	If the input voltage is greater than 120 VAC, check whether three-phase power is incorrectly connected
E02	02	Undervoltage protection	The input voltage is less than 90VAC, and the power plug is in poor contact
E03	03	Hardware overcurrent	The impeller is stuck, the motor is out of phase, the IPM module is broken (send to the maintenance site for maintenance)
E04	04	Water temperature protection	Improper setting of temperature protection value leads to abnormal shutdown due to pipeline leakage
E05	05	Module high temperature	The water temperature is too high. The heat dissipation is poor. The IPM module is loosely installed.
E06	06	Stop-turn protection	The impeller is stuck, remove the debris in the pump chamber, (send to the maintenance point for maintenance)
E07	07	Temperature rise protection	If the module temperature rises too fast, check whether there is leakage in the pipeline
			Tube pump factory set IPM temperature 70 degrees, it is not recommended to use the water temperature more than 60 degrees, you can go inside the smartfar app to set up!
E08	08	Startup failure	The impeller is stuck, remove the debris in the pump chamber, or download the SmartFarintl app to upgrade the MCU to the latest version
E09	09	Phase loss protection	Motor line broken (send to maintenance site for repair)
E11	11	Software overcurrent	Impeller stuck, remove the pump chamber debris, long time overload operation
E12	12	Water shortage protection	The inlet is short of water, and the inlet is blocked
E14	14	Sensor failure	The sensor connector is loose or the sensor is faulty
E15	15	Communication failure	The connection cable of the display board is in poor contact
H		Derating suggestion	The module is used above 70 degrees for a long time, and the frequency is reduced to 70% power operation



Smart Pipe Pump Product warranty card

Dear customers, thank you for your purchase of intelligent transformer pump products. In order to better serve you, please carefully read, fill in and properly keep this warranty card after purchasing

Warranty that

The warranty period is one year from the date of purchase of the product by the end user from the dealer, or one year from the date of first installation of the mobile phone bound device.

The warranty certificate includes the real and valid purchase invoice and the corresponding product warranty card, or the date of the mobile phone binding device after the first installation.

During the warranty period, if the product is faulty due to quality problems, you can go to the dealer for free repair or replacement of parts with valid warranty vouchers. Users are not allowed to disassemble the machine for repair without authorization.

The Company reserves the right to modify and interpret all contents.

Non-warranty coverage

During the warranty period, if the following events occur, the Company has the right to refuse service or charge corresponding materials and service fees.

This guarantee and valid purchase certificate cannot be provided.

Product failure and damage caused by improper installation and use by users.

Failure caused by exceeding the prescribed range of use of this product.

The fault caused by incorrect wiring or abnormal power supply.

man-made abnormal external force damage.

Damage caused by disassembly and repair not authorized by our company.

Failure and damage caused by natural disasters or other force majeure factors.

Intentional damage by others.

Damage caused by transportation is not covered by warranty.

date	Product failure	Maintenance record

The user information

Customer name _____

Contact number _____

Product model _____

Date of purchase _____

dealer _____

GWANZI[®]

STRENGTH IN MOTION

Technical Support and E-Warranty Certificate
GWANZI2025@OUTLOOK.COM

FCC Warning Statement: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co - located for operating in conjunction with any other antenna or transmitter.