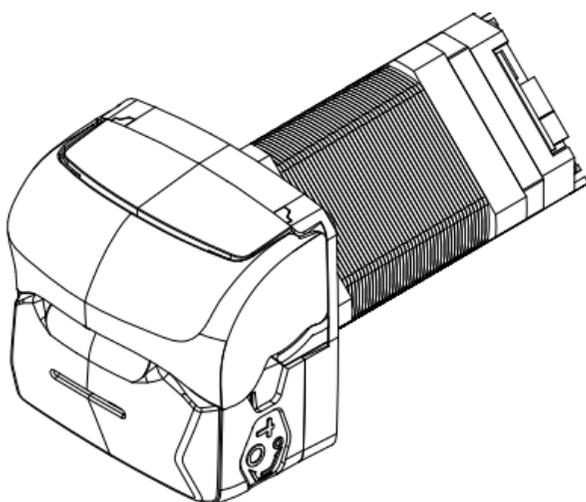


Shenchen Precision Pump Manual of OEM-KTB010





Note:

- Please read the manual carefully before operating the product.



Warning:

- Tubing may have cracks due to wear. It results in the overflow of fluid from tubing. In that time human body and instruments may be harmed. So, users must check frequently and change tubing in time.
The tubes for the dual-channel pump head must be changed at the same time.
- Connect the power cord to the wall socket directly and avoid using extended electric wire.
- If the power cord or plug have wear or other damage, please disconnect the plug. (Hold the plug instead of the wire)
- If following situations happened, please turn off the power supply and disconnect the plug. (Hold the plug instead of the wire)
 1. Fluid splash on the pump.
 2. You believe that the pump needs maintenance or repair.
- The user's outlet must have a ground wire and have reliable grounding.

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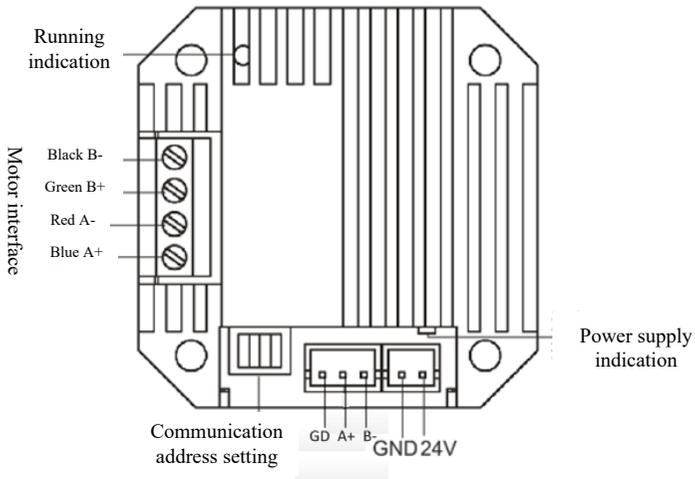
1. Product Introduction

The mainboard adopt RS485 communication, standard Modbus protocol to remote control. Power down memory function, save the running status.

Suitable pump head: KT15 series flip-type pump head.

2. Product Interface Definition

2.1 Mainboard wiring diagram





2.2 Main board Instruction

Name	Definition	Note
GND	The negative terminal of power supply	DC24V
24V	The positive terminal of power supply	
A+	Connect with RS485A+	RS485 communication interface
B-	Connect with RS485B-	
Running indication	Module operation indicator	When work normally, the operation indicator is always green or flashes.
Power supply indication	Module power indicators	When power on, the power supply indicator is always red.
Motor interface	Motor interface	A+, A-, B+, B- are correspond to motor wire: blue, red, green, black.



2.3 Communication address setting

Dial code 5	Dial code 4	Dial code 3	Dial code 2	Dial code 1	Address
ON	ON	ON	ON	ON	1
OFF	ON	ON	ON	ON	2
ON	OFF	ON	ON	ON	3
OFF	OFF	ON	ON	ON	4
ON	ON	OFF	ON	ON	5
OFF	ON	OFF	ON	ON	6
ON	OFF	OFF	ON	ON	7
OFF	OFF	OFF	ON	ON	8
ON	ON	ON	OFF	ON	9
OFF	ON	ON	OFF	ON	10
ON	OFF	ON	OFF	ON	11
OFF	OFF	ON	OFF	ON	12
ON	ON	OFF	OFF	ON	13
OFF	ON	OFF	OFF	ON	14
ON	OFF	OFF	OFF	ON	15
OFF	OFF	OFF	OFF	ON	16
ON	ON	ON	ON	OFF	17
OFF	ON	ON	ON	OFF	18
ON	OFF	ON	ON	OFF	19
OFF	OFF	ON	ON	OFF	20
ON	ON	OFF	ON	OFF	21



OFF	ON	OFF	ON	OFF	22
ON	OFF	OFF	ON	OFF	23
OFF	OFF	OFF	ON	OFF	24
ON	ON	ON	OFF	OFF	25
OFF	ON	ON	OFF	OFF	26
ON	OFF	ON	OFF	OFF	27
OFF	OFF	ON	OFF	OFF	28
ON	ON	OFF	OFF	OFF	29
OFF	ON	OFF	OFF	OFF	30
ON	OFF	OFF	OFF	OFF	31
OFF	OFF	OFF	OFF	OFF	32

Note: The default address of leaving factory is 1. When using, if the communication address of host computer is 0, it is in the broadcast state.

3. Technical Specification

Speed range	0.1-400rpm
Control method	RS485communication
Communication address	1~32
Power Supply	DC24V ≥ 24W
Environment temperature	0-40°C
Environment humidity	≤80% RH no condensation
Work environment	Keep away from heating device, avoid dust, oil, corrosion gas and strong vibration site



4. Main Functions and Features

4.1 Simple to operation.

4.2 Control start/stop, direction and speed by communication method.

4.3 Multiple units can be assigned different RS485 addresses (non repeatable), and one controller can control at the same time.

4.4 Power down memory function.

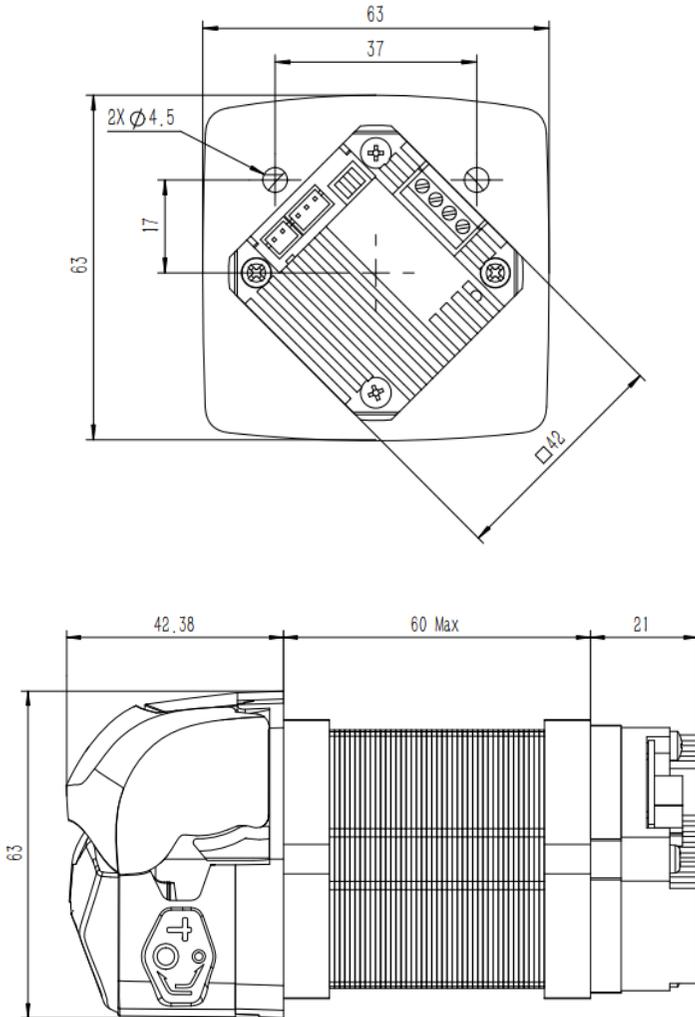
4.5 Standard Modbus protocol to remote control.

5. Pump Head Instruction

For details, please refer to <<Shenchen Pump Head Instruction Manual>>.

6. Dimension Drawing

(Unit:mm)





7. Maintenance

- When pump does not work, please loose the upper block of pressing the tubing for avoiding changing the shape of tubing because of longtime extrusion.
- Keep the rollers of pump head clean and dry, otherwise it can quicken the tubing wear, reduce the useful life of tubing and lead the rollers to damage in earlier.
- Pump head cannot resist organic solvent and super corrosive liquid. Please pay attention to it when using.
- The stepping motor generates high heat, it is recommended to air-cool the product.



8. Warranty and After-sales Service

We support 1 year warranty for the pumps, subject to the exceptions below. Our company shall not be liable for any loss, damage, or expense directly or indirectly related to or arising out of the use of its products. This warranty does not obligate our company to bear any costs of removal, installation, transportation, or other charges which may arise in connection with a warranty claim.

If the pump fails during the warranty period, after confirmation by our technical department, we will provide spare parts free of charge. Customers will need to bear the shipping cost.

Exceptions:

- The warranty shall not apply to repairs or service necessitated by normal wear and tear or for lack of reasonable and proper maintenance.
- All tubing and pumping accessories as consumable items are excluded.
- Electrical surge as a cause of failure is excluded.
- Chemical attack is excluded.
- Improper operation or man-made damage as a cause of failure is excluded.

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