User Manual

Power Sequencer TCI-108C

Safety Warnings

Keep these safety instructions in a safe place.

Heed all warnings.

Follow all operating instructions.

Do not spray liquids near the device. Do not place objects filled with liquids, such as vases, on top of the device.

Clean the device only with a dry cloth.

Do not block heat vents. Install the device according to the manufacturer's instructions.

Do not install the device near any heat sources, such as radiators, heat registers, stoves, or other heating appliances (including amplifiers).

Use only manufacturer-specified attachments and accessories.

Unplug the power cord during thunderstorms or when the device is unused for extended periods.

Observe the safety regulations for the polarized or grounding-type plug. A polarized plug has two blades of different widths. A grounding plug has two polarized blades and a safety grounding prong. If the provided plug does not fit into your outlet, replace the outlet. Consult an electrician for instructions on replacing the outlet.

Protect the power cord from being walked on or rolled over. Take special care to protect the cables at the plug, receptacle, and device ends.

Use only the portable cabinet, stand, tripod, bracket, and work table specified by the manufacturer or sold with the equipment. When using a portable cabinet, exercise caution to prevent the cabinet and equipment from tipping over. Consult qualified service personnel for maintenance and repair. Repairs are required if the equipment is damaged, has been spilled, has been exposed to rain or moisture, does not function normally, or has been dropped.

Power Switch: For equipment equipped with a power switch, turning off the power switch does not completely disconnect the equipment from the power source.

Power Disconnect: The power plug must remain readily accessible. For cabinet-mounted equipment or equipment where plug connection is not possible, a full-pole power switch with a contact opening of at least 3mm must be provided in the equipment cabinet or building.

For equipment with an external fuse connector: Replace the fuse with a fuse of the same type and rating.

Multiple Input Voltages: Depending on the power supply at the installation site, this equipment may require a different power cord or connector. Ensure that the power supply meets the power type requirements marked on the rear panel of the device. For information or service related to electricity, please consult relevant qualified personnel to avoid the risk of fire or electric shock.

Safety Warnings

For users of devices with power cords, please note these safety instructions!

Warning: This device must be plugged into a grounded power outlet.

The power cord wires are color-coded as follows:

The wires in the power cord are distinguished by the following colors:

Green/Yellow - Earth Wire

Blue - Neutral Wire

Brown - Live Wire

If the color coding on the power cord does not match the color coding on the power plug, follow these steps:

- The yellow-green wire must be connected to the prong marked with E, the ground symbol, green, or yellow-green on the plugA
- The blue wire must be connected to the prong marked with N or black on the plugA
- The brown wire must be connected to the prong marked with L or red on the plug.

Depending on the power supply at the installation site, this device may require a different power cord or plug. If you need to replace the plug, consult a qualified professional and refer to the following table for details.

Lead Wire		Wire Color	
		General Standard	Other Standard
L	Live Wire	Brown	Black
N	Neutral Wire	Blue	White
E	Earth Wire	Green / Yellow	Green

This device uses high-voltage components. Do not open the casing without permission. When inspecting or modifying the device, be aware of the risk of electric shock. Any performance degradation or damage caused by user modification or misoperation will not be covered by the product warranty.

Poor grounding protection can cause malfunctions in connected devices or systems, resulting in full voltage between the device chassis and the ground. Simultaneous contact between the chassis and the ground can result in serious injury or even death.

Production Information

Our company's newly developed, fully digitally controlled intelligent power sequencer can sequentially turn various devices on and off, providing effective, unified management and control, preventing damage to electrical equipment caused by human error. It also reduces the impact of induced currents on equipment during power on and off, ensuring stable operation of the entire system.

The stylish and lightweight design allows for flexible movement within any space. The color touchscreen display provides a clear and intuitive overview of the sequencer's operating status, convenient parameter settings, and multiple protection features, eliminating the need for tedious power on/off operations. Our company is committed to high-performance digital R&D and a premium user experience, ensuring that every product delivers a superior user experience. Thank you for choosing our products. This manual applies to our entire line of sequencer products.

Features

(1) Equipped with a 2.4-inch/4.3-inch color TFT-LCD touch screen display, which can display the current voltage, date and time, and channel switch status in real time;

(2) 8 switch channel outputs, and the delay opening and closing time of each channel can be freely set (range 1~999 seconds);

(3) Each channel can be set to open/close independently, which facilitates flexible use of the device;

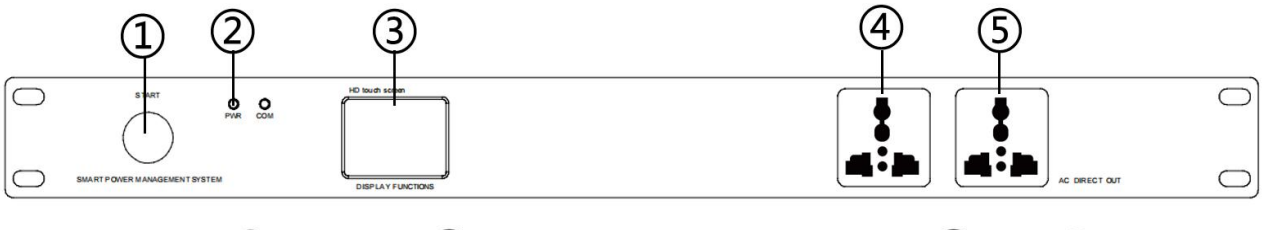
(4) Built-in clock chip, which can automatically open/close each channel according to the date and time setting;

(5) Undervoltage and overvoltage protection, the protection value can be customized;

(6) Equipped with RS232 and RS485 interfaces, supporting cascading and central device control;

(7) Rated total output current: 40A, single output current: 30A.

Front Panel



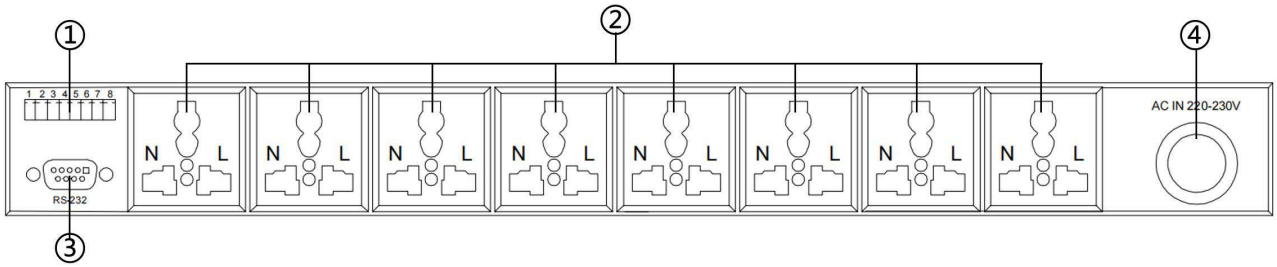
①START：Power on/off switch; long press to turn on/off, short press to turn on/off intelligently;

②Device working status indicator light, PWR is the power indicator light, COM is the control indicator light;

③HD touch screen：Touch screen display, menu working status display;

④⑤OUT100-240VAC：Auxiliary output channel, this channel is a direct channel and is not subject to intelligent control.

Rear Panel



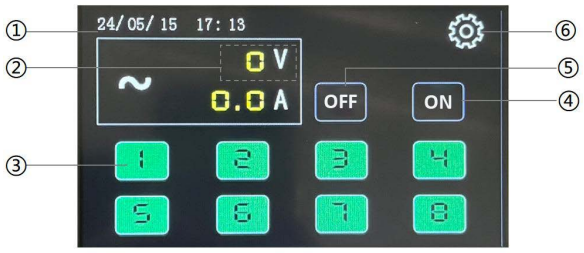
①(1,2) are external intelligent switch interfaces, (3,4) are RS-485 interfaces, and (5~8) are cascade interfaces (see page 6 for connection diagram);

②CH1~8, channel 1~8 universal power socket;

③RS-232 interface, central control interface, PC interface;

④AC INPUT 100~240V 50/60Hz,Power cord, connected to mains power.

Interface Instruction



①: Time display;

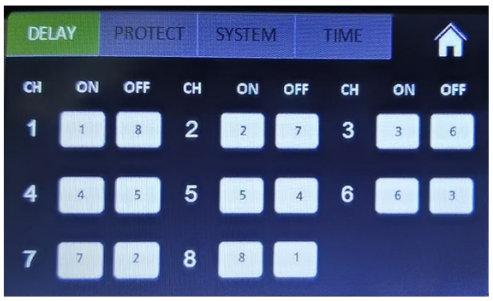
②: Real-time voltage;

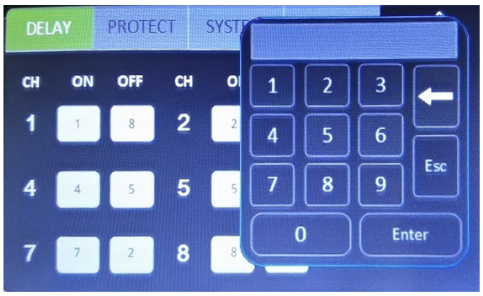
③: Current status of channels 1-8;

④: Open all channels 1-8 in sequential/reverse order;

⑤: Close all channels 1-8 in sequential/reverse order;

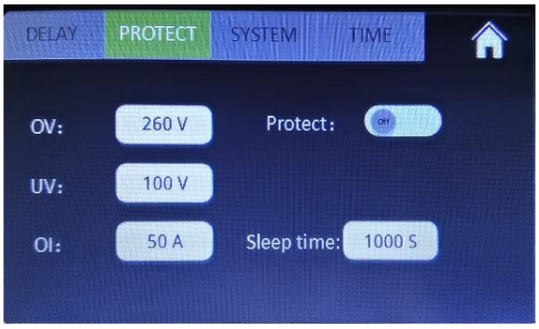
⑥: Settings button, click to enter the settings menu interface;





Open the delay menu to set the delay time of the channel on/off. Touch and enter the parameters to set the parameters. The time range is 1-999s.

1. Delayed opening;
2. Delayed opening time;
3. Delayed closing;
4. Delayed closing time.



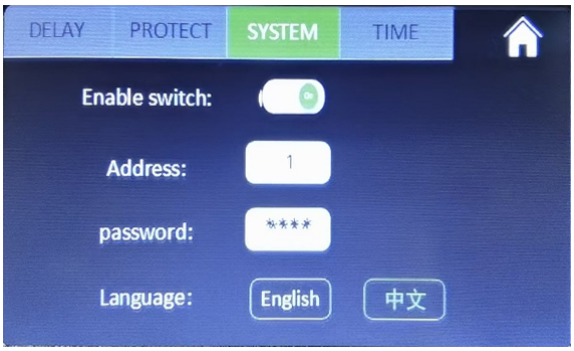
Overvoltage: When overvoltage protection is enabled and the input voltage exceeds the set voltage, overvoltage protection is triggered, shutting down the sequencer channels one by one (except the pass-through channel). Adjustable range: 100-300V.

Undervoltage: When undervoltage protection is enabled and the input voltage falls below the set voltage, undervoltage protection is triggered, shutting down the sequencer channels one by one (except the pass-through channel). Adjustable range: 80-220V.

Overcurrent: When overcurrent protection is enabled and the current in the circuit exceeds the rated value, overcurrent protection is triggered, shutting down the sequencer channels one by one (except the pass-through channel). Adjustable range: 30-40A.

Sleep Time: The time the sequencer enters sleep mode when no operation is performed. The screen can be woken up by clicking the screen. Note: Slave screens connected via RS-232 or RS-485 do not enter sleep mode. Adjustable range: 1-999s.

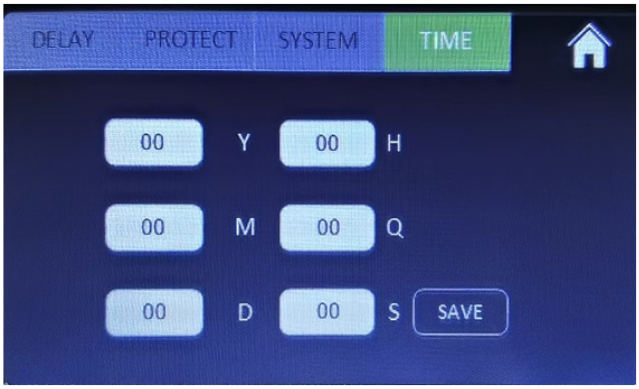
Save button: After setting the parameters, click to turn on/off the protection function switch;



Enable Switch: Enables channels 1-8. When the channel is off, the grayed-out color is not controlled by the smart on/off function. Address: The machine code of the sequencer.

Password: This function saves modified parameters.

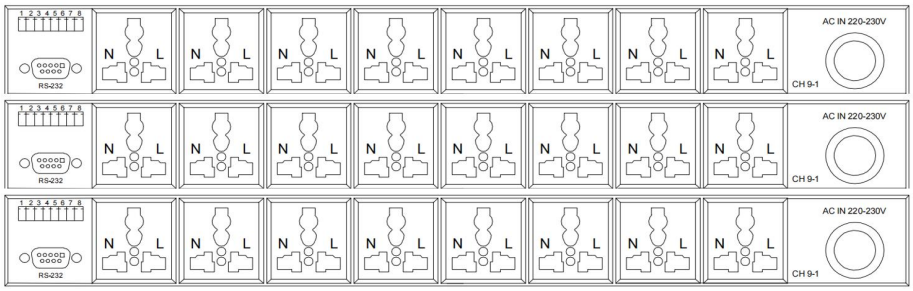
After entering the correct password (factory password: 1234), you can set a new password for the sequencer and restore factory settings. Language: Select between Chinese and English.

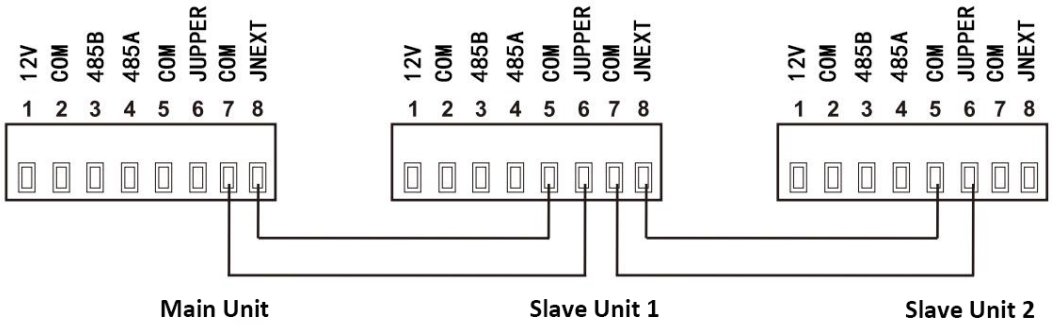


Time: Please set the correct date and time for the timer;

Schematic diagram of cascading multiple sequencers

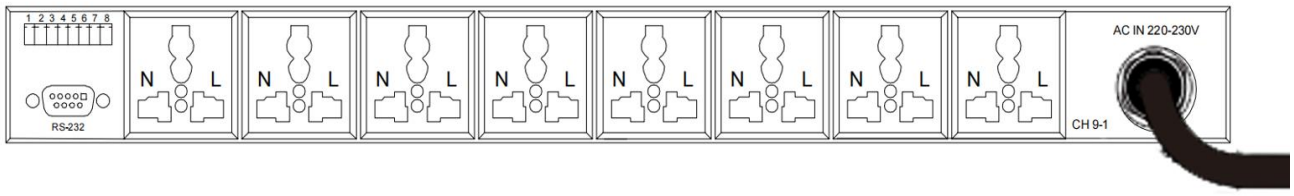
1. **Main Unit**
2. **Slave Unit**
3. **Slave Unit**





Multiple sequencers can be cascaded. Connect them as shown above. The first sequencer acts as the master unit (the main interface displays the "Master" symbol). When the master's sequence switch is activated, the slaves (the main interface displays the "Slave" symbol) are activated in sequence. In cascade mode, disable the scheduled start function on all slaves.

Power Cable Connection



Communication Protocol

Baud Rate: 9600 Date Bits: 8 Check Digit: None Stop Bits: 1

CH1 ON	01	16	00	00	00	01	01	AA
CH2 ON	01	16	00	00	00	01	02	AA
CH3 ON	01	16	00	00	00	01	03	AA
CH4 ON	01	16	00	00	00	01	04	AA
CH5 ON	01	16	00	00	00	01	05	AA
CH6 ON	01	16	00	00	00	01	06	AA
CH7 ON	01	16	00	00	00	01	07	AA
CH8 ON	01	16	00	00	00	01	08	AA
CH9 ON	01	16	00	00	00	01	09	AA
CH10 ON	01	16	00	00	00	01	0A	AA
CH11 ON	01	16	00	00	00	01	0B	AA
CH12 ON	01	16	00	00	00	01	0C	AA
CH1 OFF	01	16	00	00	00	00	01	AA
CH2 OFF	01	16	00	00	00	00	02	AA
CH3 OFF	01	16	00	00	00	00	03	AA
CH4 OFF	01	16	00	00	00	00	04	AA
CH5 OFF	01	16	00	00	00	00	05	AA
CH6 OFF	01	16	00	00	00	00	06	AA
CH7 OFF	01	16	00	00	00	00	07	AA
CH8 OFF	01	16	00	00	00	00	08	AA
CH9 OFF	01	16	00	00	00	00	09	AA
CH10 OFF	01	16	00	00	00	00	0A	AA
CH11 OFF	01	16	00	00	00	00	0B	AA
CH12 OFF	01	16	00	00	00	00	0C	AA
Delayed ON	01	16	00	00	00	01	11	AA
Delayed OFF	01	16	00	00	00	00	00	AA
One-key ON	01	16	00	00	00	01	12	AA
One-key OFF	01	16	00	00	00	00	10	AA

For example (device address is 01, channel 1 is open)

5B B5 01 16 00 00 00 01 01 AA

CAUTION: Do not open the equipment cover arbitrarily, so as not to electric shock. Please contact the professionals to maintian if necessary.

The products are constantly improving,subject to change without prior notice.