



INSTALLATION AND OPERATION MANUAL

8 Channel Power Supply Control Unit

VS-C203



SAFETY PRECAUTIONS:

Please read the instructions in this column before use.

Be sure to follow the safety precaution symbols and related instructions described in this manual. Keep this manual in case you need it.

Explanation of safety symbols and messages

When setting up this equipment

- Do not expose this equipment to rain, or splashing with water or other liquids, to avoid fire or electric shock.
- This equipment can only match the voltage specified by itself, if the specified voltage value is higher, it will cause fire or electric shock.
- The power cord cannot be cut or modified to avoid damage. Avoid placing the power cord too close to the heater; do not spill children's objects on the power cord, including the equipment itself, to avoid fire or electric shock.
- Do not install this equipment in an unstable location, so as to prevent the equipment from falling to cause your own danger or damage to the equipment's performance.

When using this equipment

- if you find the following irregularities during use, turn off the power immediately. If you find this situation, do not operate this equipment at will to avoid fire or electric shock. If you smell smoke or peculiar smell from the equipment itself. If water or any metal objects are immersed or dropped into this equipment. If the device is dropped or the case is damaged.
- If the power cord is damaged (exposed inner cord is not connected, etc.). If the device malfunctions (no sound).
- Do not drop metal or combustible objects into the ventilation slots to avoid fire or electric shock.
- Do not touch the plug or antenna during thunder and lightning to avoid fire or electric shock.

When installing this equipment

- If you want to unplug the power cord, you must hold the power plug with your hands; do not pull directly on the power source.
- Do not cover the ventilation slots on the upper cover of the device shell, otherwise it may affect the heat dissipation of the device and cause fire.

- Do not place this equipment in a place with humidity or dust, and do not expose it to direct sunlight, or a place with black smoke or steam, as this may cause fire or electric shock.

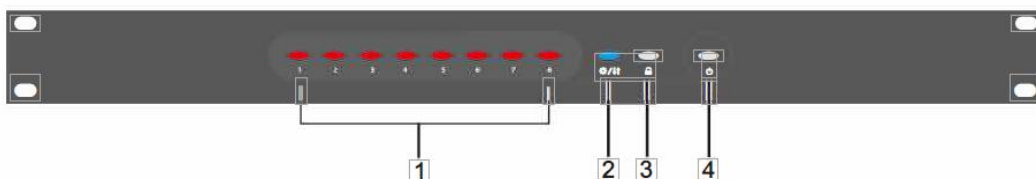
When using this equipment

- Do not place heavy objects on the equipment to avoid falling or damage, or even damage to yourself and damage to equipment functions.
- If you want to clean this equipment or if it is not used for more than 10 days, for safety reasons, you must turn off the power and unplug the AC power outlet.

PRODUCT FEATURES:

- (1) 8 groups of relay control outputs (normally open and normally closed), using American standard fence type terminal blocks.
- (2) The truly intelligent design has standard RS232 and RS485 serial numerical control interfaces and external level or closed contact control. It can not only meet the control requirements of the central controller and PC, but also connect various control panels to meet the supporting requirements of various systems.
- (3) Each output (normally open and normally closed) has independent button control and status indication.
- (4) This device has its own behavior memory programming function; it can independently control the program switch.
- (5) The panel keys have a password lock function, which is convenient for management and avoids no operation.
- (6) 19 inches, 1U standard chassis. Aluminum alloy panel, black.

Front Panel



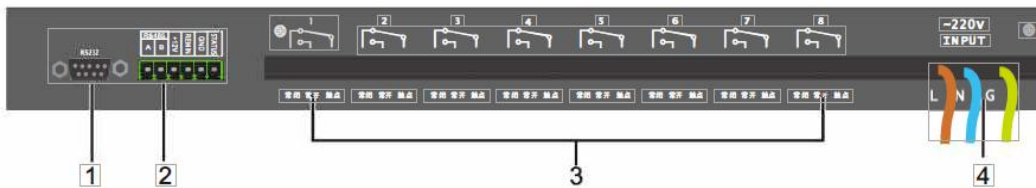
1. 8 channel control buttons and output status indication, which can individually close and open the current channel. Also used as a number key for password input.
2. "⚙️" set buttons and instructions. Enter and exit the setting state. Complete the channel normally open, password modification, behavior memory, sleep settings.
3. "🔒" key and instructions: keyboard lock, convenient for users to manage the equipment. When the "🔒" key is lit green, it is unlocked. The user can operate the

electric

source. When the "🔒" key is red, it is locked and the keys on the panel cannot be operated. You need to enter a password to unlock it before you can operate it. (Note: This device has a sleep function, the keyboard will be automatically locked after entering sleep, and sleep can be cancelled by setting.)

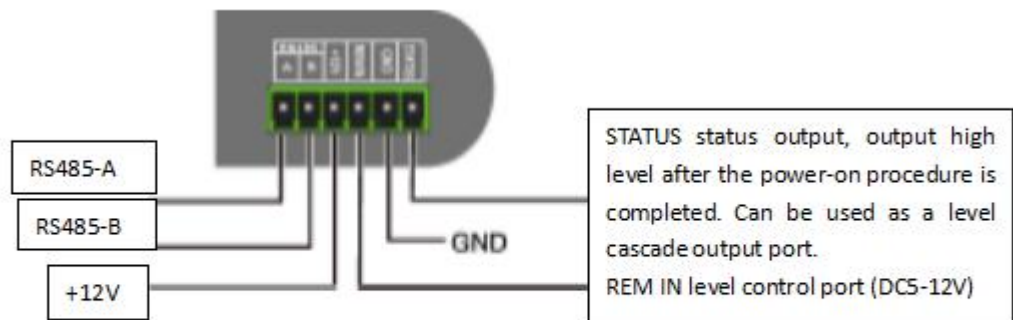
4. "🔌" button, power switch control button. Press and hold the button for 2 seconds, the indicator light flashes green (every 1 second), the power can be turned on by program, and the channel indicator on the panel lights up accordingly. After the power is turned on, the button indicator lights green. Press the "🔌" switch again for 2 seconds, the program will turn off the power, the button indicator will flash red (every 1 second), and the channel indicator on the panel will go out accordingly. After the closing operation is completed, the button light is off.

Rear Panel



1. Rs232 cascade control input interface.
2. External control serial port and level control port. The 6-position terminal blocks are shown in Figure 1: from left to right (see the next page)
3. Normally open and normally closed control interfaces, using American standard fence type terminal blocks. (1---8 roads)
4. AC 220V main power input line.

Figure 1



OPERATION AND USE:

3.1. Connect to the power supply

Connect to the power supply as required. Use RV, RVV or BV, BVV copper wires. Note: Correctly connect according to the signs. Can not be wrong.

L----Live wire (Brown) N----Neutral wire (Blue) G----Ground wire (Yellow green)

3.2. Switch machine operation:

When the "🔒" indicator light is green, it means the machine is in the unlocked state.

Press the "🔌" key for 2 seconds. When the "🔌" indicator light is green, the program turns on the power switches.

Channel, press the "🔌" key again, when the "🔌" indicator is red, the program turns off each channel of the power supply. During the program opening/closing process, the "🔌" indicator flashes,

Every 1S. (Note: This operation has no program action in the factory default)

3.3. Keyboard lock operation:

Keypad lock status: When the indicator light of the "🔒" key is red, it means the machine is locked. When the "🔒" indicator light is green, it means the machine is unlocked. Unlock: When the indicator light of the "🔒" key is red, that is, when the machine is in the locked state, press the "🔒" button, the indicator light of the "🔒" button flashes red, in this state, use the button to enter the factory default password "1234", If the password is entered correctly, the indicator light of the "🔒" key will be green, indicating that it is unlocked.

If the password is entered incorrectly, the "🔒" key indicator light will continue to flash red. At this time, you can enter the password again. If the password is entered correctly, the KEYLOCK indicator lights green, indicating that it has been unlocked.

If the password is entered incorrectly, the light of the "🔒" key will continue to flash red. At this time, you can also press the "🔒" key to clear the input password, and

then press the "🔒" key to make the "🔒" indicator light flash in red, and enter the password again. If you forget the password, you can press and hold the "🔌" key, and power on again to restore the factory default password "1234"

3.4. "⚙️⬇️" setting operation:

In the unlocked state, long press the "⚙️⬇️" key, release it after 3 seconds. The "⚙️⬇️" indicator flashes green, indicating that it has entered the setting state.

In this state, the behavior learning setting of program opening and program closing can be performed, and the normally open channel can also be set or the password can be modified.

3. 4. 1: Set normally open channel:

"🔌" "When the indicator light is off, press the channel key to select the channel that needs to be normally open. At this time, the opened channel is set as the normally open channel, that is, after the machine is powered on, These channels are open and are not controlled by the program switch. At this time, press the "⚙️⬇️" key to exit the well storage or continue the program opening, program closing, and password modification setting operations.

3. 4. 2: Program open settings

Press the "🔌" button, when the "🔌" indicator light is green, enter the program opening setting. If you want to start the program in the order of "1, 3, 4, 8, 7, 6, 5, 2", You only need to open the corresponding channels in order, and the open delay is the corresponding waiting time. The longest delay is 60 minutes, and it will automatically exit after timeout. When setting up the program

"
When the channel is open or closed, you can remember the channel open or close (up to 16 times). After setting, press the "⚙️⬇️" key to exit the well and save. You can also continue to press 3.4.3 to set the program off.

3. 4. 3: Program off setting

Press the "🔌" key, when the "🔌" indicator lights red, enter the program off setting. If the program is opened, press "2, 5, 6, 7, 8, 4, 3, 1" in the order Off, when setting the program off, you can remember that the channel is open or closed (up to 16 times), just turn off the corresponding channels in order, and the delay of closing is corresponding waiting time. The longest delay is 60 minutes, and it will automatically exit after

timeout. After setting, press SET to exit and save.

(Note: After the "3. 4. 3" operation, if the user feels unsatisfied, he can switch and reset by pressing the "🔌" key. Program on and program off settings are memorized Human behavior in this process)

3. 4. 4: Password modification.

Press the "🔒" button, 🔒 the indicator light flashes red, enter the password to modify the settings, first you must enter the original password, the password is 4 digits, the factory password is 1234. Password input

After the entry is correct, the "🔒" light flashes green, and the new password is entered at this time. After entering the four-digit password, the "🔒" light turns red, and then press the "🔒" button to exit the indicator light is green, press the "⚙️" button Save Settings.

4. 4. 5: Automatic keyboard lock setting

After the automatic keyboard lock is turned on, the keyboard will be automatically locked after 60 seconds of no operation on the panel keys. The "⚙️" light is red.

Set automatic keyboard lock: press and hold the "⚙️" key for 5 seconds, and the SET light will flash red, and enter the automatic keyboard lock setting. Press the "⚙️" button when the indicator light is red, turn on

Turn on the automatic keyboard lock function, when it is green, turn off the automatic keyboard lock function. Press the "⚙️" key again to exit the setting state.

3.4.6, Rs485, Rs232 control:

This machine has RS485 and Rs232 control interfaces, which can be controlled by a PC or a central controller. Under this control, the SET/PC indicator flashes red.

3.4.7. Manually modify or view the machine ID address operation:

Press and hold the "⚙️" button to power on the machine again. The "⚙️" button is always lit red. Release the "⚙️" button. At this time, the 8 button lights will

display the current ID address (ID range 1-8), you can press 1-8 channel key to modify the address. After the modification is completed, press the "⚙️" key to exit. Note: The range of local ID address is 1-255. This manual mode can only display or modify the address 1-8. Out of this range, it can't be displayed, it can be set by PC upper computer software, the factory default machine The address is 1.

3.4.8. Restore factory settings:

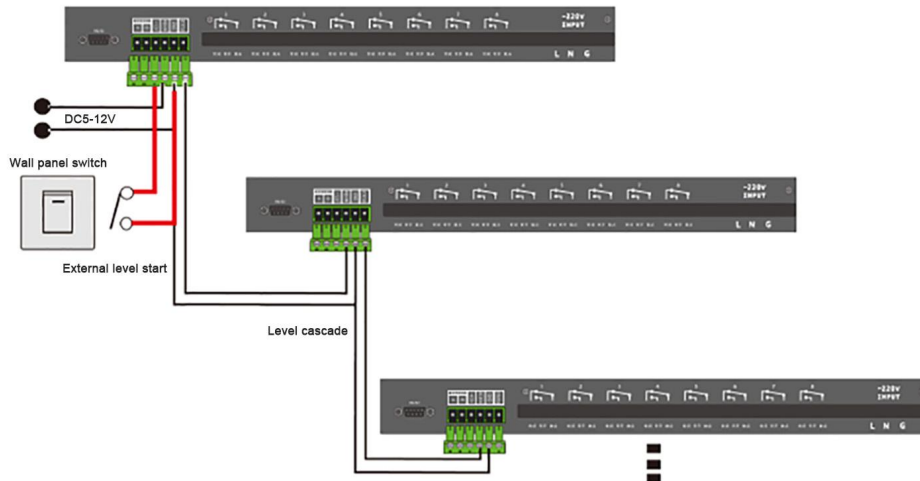
Press and hold the "🔌" button to power up the device. At this time, the "🔌" indicator light flashes green, release the "🔌" button, the "🔌" indicator light is steady green Color, it means the factory reset is completed.

TECHNICAL PARAMETER:

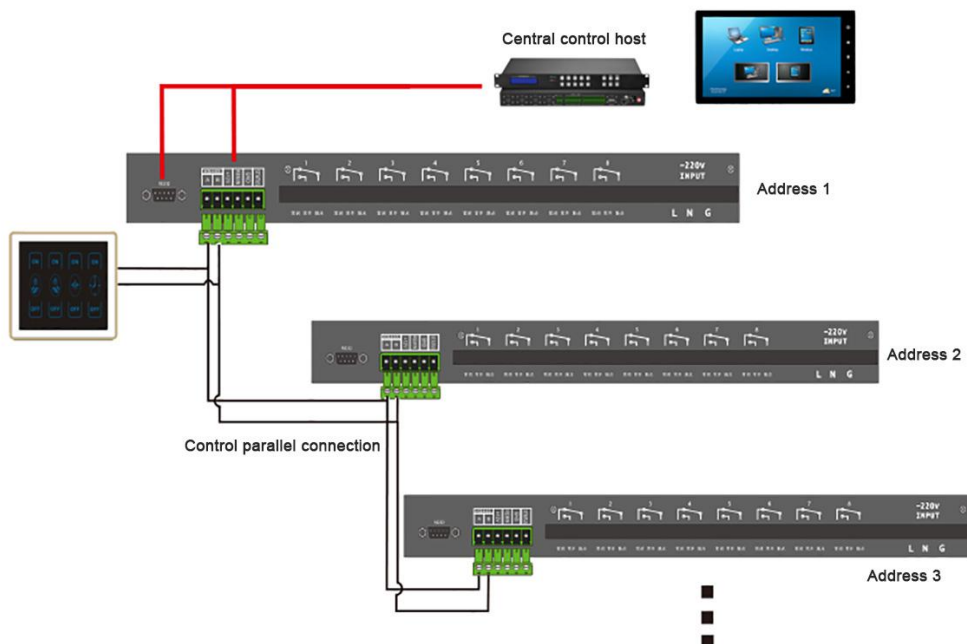
Model	VS-C203
Access power	AC220V, 50HZ
Output	1 to 8 sets of transfer switches (normally open and normally closed)
Load capacity	single channel 16A, whole machine 50A
Direct control	manual button
External control	DC 5-12V signal external short circuit control RS-485, RS-232 serial port
Size	W482xD210xH44(mm)
Weight	5.0kg
Others	Manual Warranty Card

CONNECTION:

5.1 External level control and level cascade control connection



5.2 Through RS485 control and RS232 cascade control connection and external control



SERIAL PROTOCOL:

UART Specification Baud

Rate:9600

Stop Bit:1Bit

Data Length:8-bit
 Parity Check:None
 Flow Control:None

Message Format

WORD1	WORD2	WORD3	WORD4	WORD5	WORD6	WORD7	WORD8
STX	STX	STX	ADDRESS	DATA (1)	DATA (2)	DATA (3)	CLOSE
43H	53H	54H	01H~ FFH				AAH

Address Setting:

WORD4	WORD5	WORD6	WORD7
0x01 ~0xff	0x0	0x0	0xf2

Example: write address 2: 43 53 54 02 00 00 f2 aa Return code: 43 53 54 02 00 00 F2 4F 4B AA

Note that only one machine can be connected when writing the address.

Address Reading:

WORD4	WORD5	WORD6	WORD7
0x0	0x0	0x0	0xfb

Example: 43 53 54 00 00 00 fb aa Return code: 43 53 54 02 00 00 FB 4F 48 AA

Note that only one machine can be connected when reading the address.

Real-time control:

WORD4	WORD5	WORD6	WORD7
address	0x0	xx	yy

yy=F1 H is off, FOH is on

xx=CH1 =0x01, ch2=0x02, ch3=0x03, ch4=0x04, ch5=0x05, ch6=0x06, ch7=0x07, ch8=0x08,

Timing=0x0d, All=0x10,

For example, open the first channel of the machine at address 2: 43 53 54 02 00 01 f0 aa Return code: 43 53 54 02 01 00 F5 4F 4B AA

The first channel of the machine at address 2: 43 53 54 02 00 01 f1 aa Return code: 43 53 54 02 00 00 F5 4F 4B AA

Read Status:

WORD4	WORD5	WORD6	WORD7
address	0x0	0x0	0xfa

Example: read the state of the machine at address 1: 43 53 54 01 00 00 fa aa Return code: 43 53 54 02 FF 00 F5 4F 4B AA (fully open state)

Drop Out:

WORD4	WORD5	WORD6	WORD7
address	0x0	0x0	0xf3

Example: Exit the PC control state of the machine at address 1. Return code: 43 53 54

02 00 00 F3 4F 4B AA

Return number status to PC:

WORD4	WORD5	WORD6	WORD7
address	DATA	OxO	Oxf5

DATA is the status of CH1~CH8.

Example: The return status of the first channel of address 1: 43 53 54 01 01 00 F5 4F 4BAA

The return status of the first pass at address 1: 43 53 54 0100 00 F5 4F 4BAA

Set State:

WORD4	WORD5	WORD6	WORD7
address	DATA	OxO	Oxf7

DATA is the status of CH1~CH8. DATA=OxFF is fully open, otherwise, it is fully closed; DATA=Ox01 means the first channel is open, and the other channels are closed.

Example: Set the first state of the machine at address 1: 43 53 54 01 01 00 17 aa

Return code: 43 53 54 01 01 00 F5 4F 4B AA