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USB 8xRelay

№100872



USB 8xRelay is based on contemporary microcontroller and is applicable for automation and/or other applications using relay control from a PC.

Serial communication via USB - UART TTL serial converter is used. The device has internal clock and calendar with built-in battery, allowing the device's clock to work during power loss.

Specifications:

- Communication port for PC: **USB**
- Number Of Relays: **8** with power rating up to 240V/7A
- Each relay has contacts: NO-normally open; COM-common; NC-normally closed
- LED Indication for:
 - each relay working status;
 - supply voltage;
 - device working status;
 - plugged in USB cable.
- Reverse-voltage protection
- Supply Voltage: **DC 12V/0.3A**
- PCB Size: 93mm x 84mm
- Suitable for mounting in DIN rail box: **Z-101**
- Non-volatile memory for device settings
- Programming via **USB 8xRelay** free software for Windows XP, 7, 8, 8.1 and 10

Note:

- For device's programming and setting a PC with USB - port is needed
- For device's working mode a working PC is **not** required

The device software allows:

- To save a file with selected and configured settings;
- To read selected and configured settings from the device;
- To change each relay name;
- To set a name of the device;
- To operate several devices connected to one PC;
- Each relay can be freely configured to operate independently in different modes:

- **Manual** - manually activating and deactivating a relay;
- **Single** - activating and deactivating on set date and time;
- **Cyclic** - setting a cycle of operations with up to 10 cycles of each relay;
- **Weekly** - daily activating and deactivating each relay up to 10 times per day.

Parameters stored in the device's non-volatile memory:

- Name of the device;
- Each relay operation mode;
- Preset settings in selected mode for each relay.

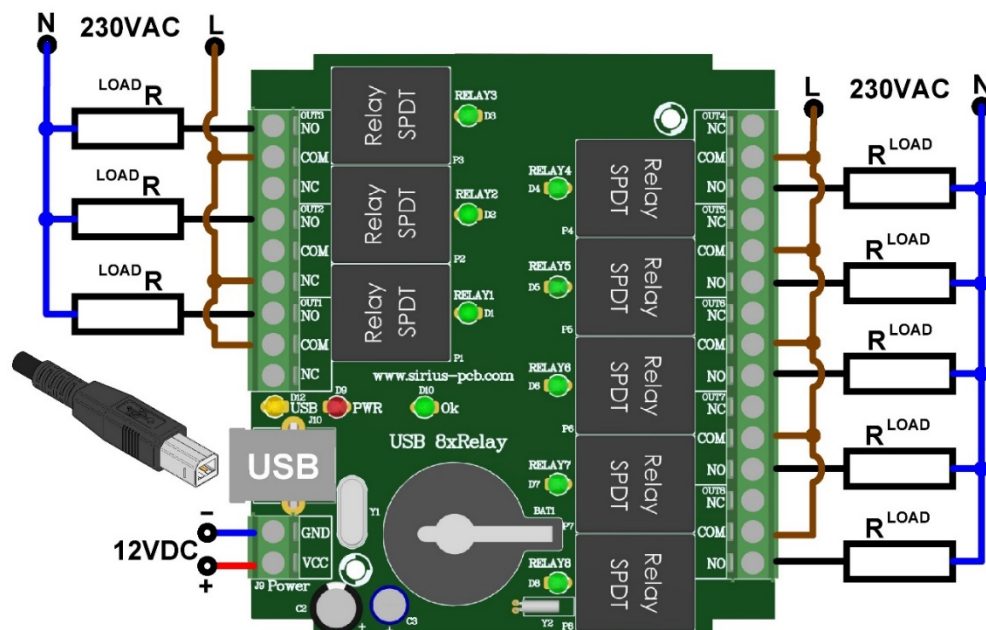
Parameters saved in file:

- Name of the device;
- Each relay operation mode;
- Preset settings for each relay;
- Name of each relay.

The device is provided with:

- programming and communication protocol;
- free software for device configuration and control;
- driver for device operation.

Drivers are available on www.sirius-pcb.com



Device Wiring Diagram

Steps for installation and operating with the device:

1. Connect the device to the PC (communication between the programmer and PC is indicated with yellow LED flashes **D12 USB**)
2. Connect to a power supply: required voltage – 12VDC (voltage supply is indicated with red LED **D9 PWR**)
3. LED **D10 Ok** enters in flashing mode (the device is working properly)
4. Install the driver from archive **CH34x_Install_Windows_v3_4.zip**
5. Install the software from archive **Setup USB 8xRelay rev.1.07.rar**
6. Once installation is completed, run the software from your **Computer desktop**.
7. After running the software, it is required to choose „**Communication port**“ with the device (as shown on Fig. 1) **Port №**

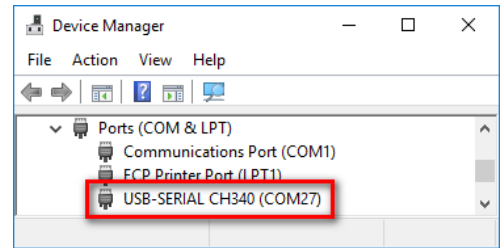


Fig. 1 Main screen

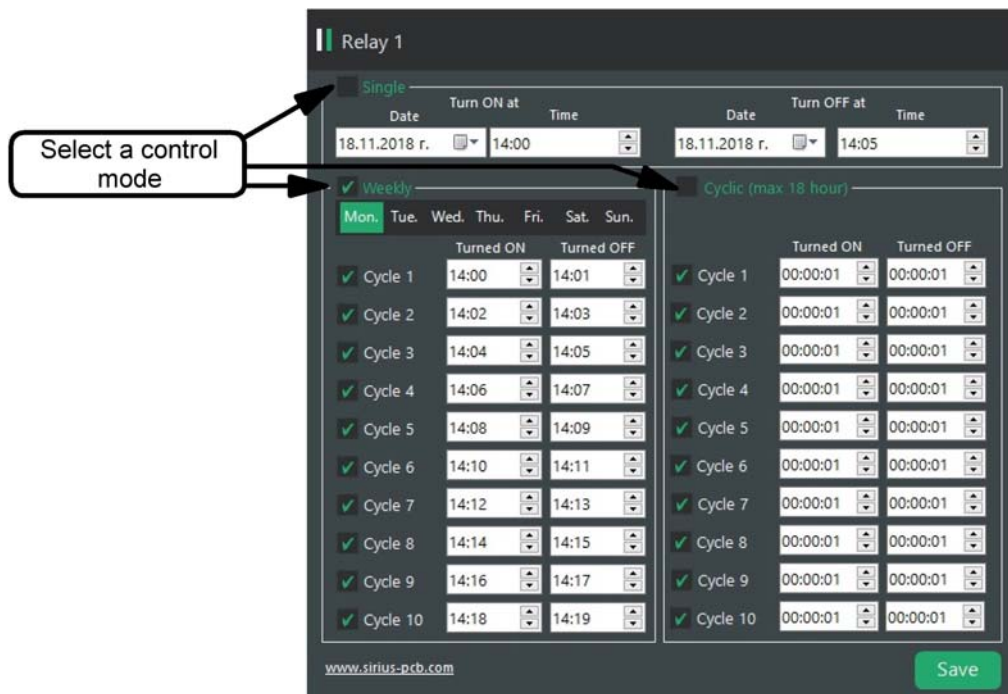


Fig. 2 Modes and parameters menu for the corresponding relay

Warning: All precautions for **HIGH VOLTAGE Safety Work** must be followed when the device is exploited!