# SERIAL PORT TOOL

# Relay Timer Quick Start Guide



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### Introduction

#### **Real-Time Status & Control**

Relay Timer is programmable timer software to control ProXR and ProXR Lite relay boards. It supports 1 ProXR relay board and up to 15 expansion boards with 16-channel on each. It's fit for controlling lights, motors, pumps, bells, audio, video and other applications related with home automation, science experiment, industry control, energy conservation and so on.

#### All The Features You Need...

- Control Relay with Time Schedule
  - Easily Set Time Schedule
  - Multiple Schedule Setting
  - Settings for Reoccurring Times
  - Save Schedule for later loading
- Manually Take Control of Relays
  - Rapid Button to Control Relay Directly
  - Override Schedule at any Time
  - Turn Relay On/Off Manually
  - Automatically Switch Back to Auto Mode

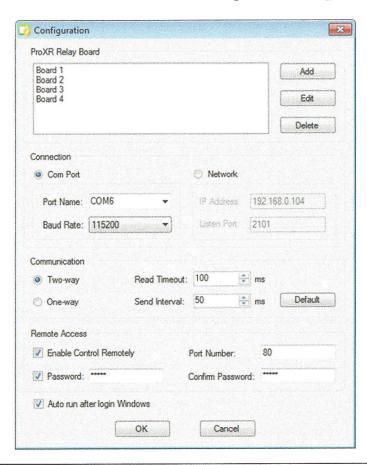


## **Getting Started**

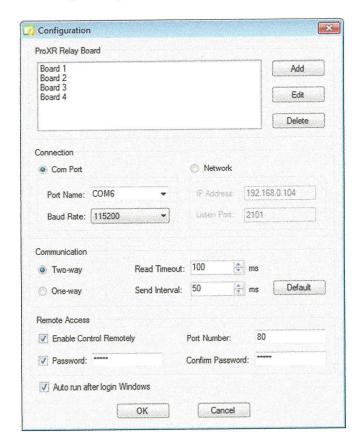
## **How to Configure**

In order to control your device with Relay Timer, be sure to connect your ProXR Relay Board with a computer. When connecting your device, connect with the relay board at first, and then set the configuration as below.

Click Configure button to open the Configuration dialog shown below.



#### **Configuring Dialog**



**ProXR Relay Board:** This panel is to manage your different ProXR Relay Extension Boards.

**Connection:** This panel is to choose if you want a Com Port connection or a Network connection.

**Communication:** This panel is to set your choice of communication, One-way or Two-way. The default communication is Two-way.

**Remote Access:** On this panel, to activate Remote Access, select the "Enable Control Remotely" checkbox. To control the Relay Timer from another computer, access the Host computer through its IP address.

Select the "Auto run after login Windows" checkbox and the Relay Timer will run automatically after logging into Windows.

Click **OK** to finish changes to Configuration.

## **How to Turn On/Off Relay Board Manually**

The light on the top right hand corner of the Relay Control Panel indicates the current status of the relay.

- Green means the Relay Board is ON.
- Red means the Relay Board is OFF.

Click the Manual Dutton to go into Manual Operation Mode.

(After clicking the Manual button, it should look like this: Manual

You can turn the Relay Board on by moving the slider on

• The light should turn green to indicate the Relay Board is ON.

You can turn the Relay Board off by moving the slider

• The light should turn red to indicate the Relay Board is OFF.







off

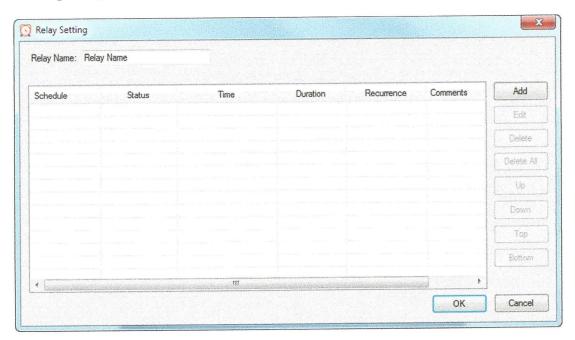
## **How to Turn On/Off Relay Automatically**

Click the Auto button down to step into auto mode.

(After clicking the Auto button, it should appear as: Auto

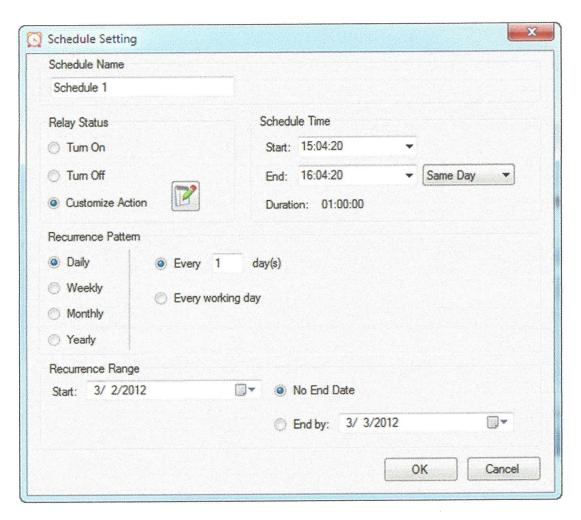
The default mode is auto mode. To schedule Relays to turn off and on automatically you have to go to Relay Settings.

Click the **Setting** button on the relay control panel to open up the **Relay Setting** dialog.



The relay can be given a name here underneath Relay Name.

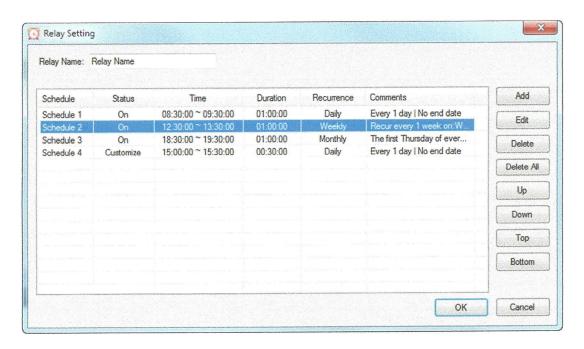
Click **Add** button to open up the **Schedule Setting** dialog.



- Edit the Schedule Name
- Select a Relay Status
- Set a Schedule Time
- Select a Recurrence Pattern and Range.

Click **OK** to return **Relay Setting** dialog.

Different schedules can be added by repeating this step.



Click **OK** to finish relay setting.

The relay will be turned on/off automatically according to the schedule list.

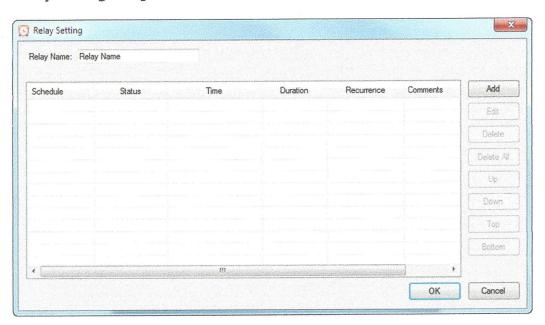
#### **How to Customize Relay Functions**

The on/off function of the Relay Board can be customized.

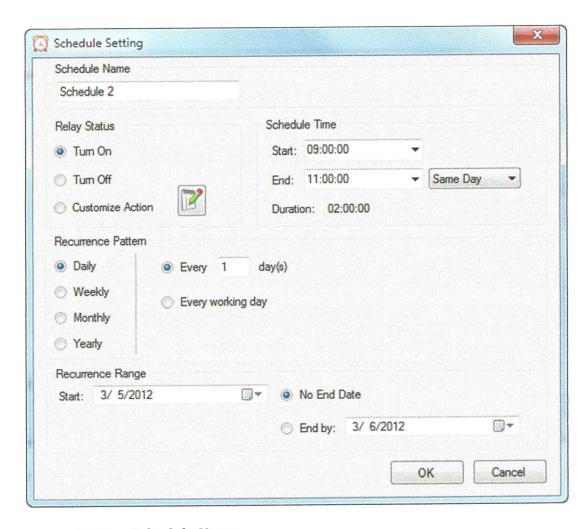
For example, a relay can be on 10 minutes, then off 5 minutes within the same hour, and on 20 minutes and then off 10 minutes during a different hour.

This can be set using the steps below.

**Step1.** Click the Setting button on the relay control panel to open the Relay Setting dialog.

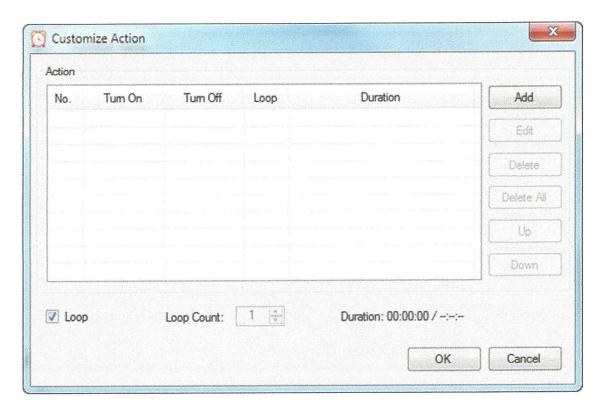


**Step 2.** Click the **Add** button to open the **Schedule Setting** dialog.



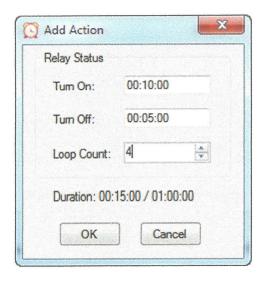
- Edit the Schedule Name
- Set a **Schedule Time** (2 hours)
- Select a *Recurrence Pattern* and *Recurrence Range*

**Step 3.** Click the *Customize Action* button or the button beside it to open up the **Customize Action** dialog.



**Step 4.** Click the **Add** button to open the **Add Action** dialog.

Set *Turn On* 10 minutes, *Turn Off* 5 minutes and *Loop Count* 4.



Click **OK** to return to the **Customize Action** dialog. The action you added will be shown in the list of actions.

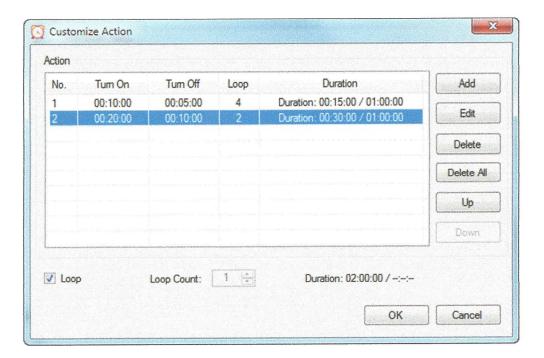


**Step 5.** Click Add button to open the **Action Rule** dialog again.

Set *Turn On* 20 minutes, *Turn Off* 10 minutes and *Loop Count* 2.

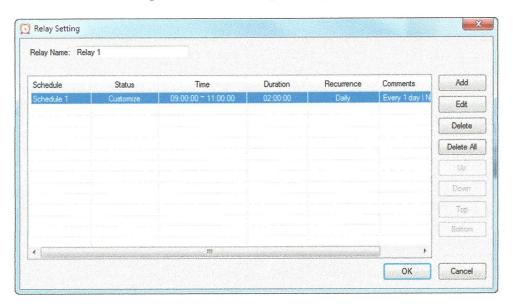


Click **OK** to return to the **Customize Action** dialog. The action you just added will also be shown in the list.



Click the *OK* button to return to the **Schedule Setting** dialog.

Click the  $\emph{OK}$  button again to return **Relay Setting** dialog.



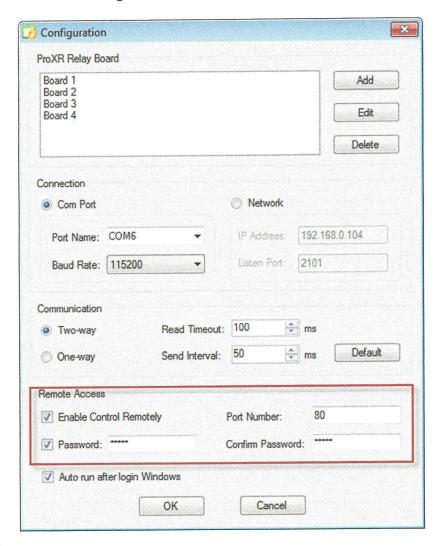
Click **OK** to finish the changes to the Relay's settings.

The relay will be turned on/off automatically according to the customized setting.

## **How to Control Relay Remotely**

The Relay Timer can be controlled remotely from other computers.

Click the **Configure** button to show the <u>Configuration</u> dialog.



Select the **Enable Control Remotely** checkbox. You can set the Port Number or keep the default value of 80.

Select Password to set a password for Remote Access.

Click **OK** to finish your changes.

The Relay Timer can be controlled on another computer by typing the main computer's IP address in the internet browser.



If the Port Number is 80, you just need to type the IP address in the browser, as shown above.

If the Port Number is modified, you need add the number after the IP address, shown as below.



## **Rapid Buttons**

Configure	Click to load a *.cfg file to see the settings of all relays.
All On	Click to turn all of the relays on.
All Off	Click to turn all of the relays off.
(All Auto	Click to set all relays into auto mode.
Load Status	Click to load a *.sts file to set status of all relays.
Save Status	Click to save the current status all relays to a file (*.sts)
Load Setting	Click to load a *.sch file to show settings for all relays.
Save Setting	Click to save the settings of all relays to a file (*.sch)