

## FIRST TIME USE

- Download the latest version of **LiteCTRL** from our website: [loligosystems.com/downloads](http://loligosystems.com/downloads). Follow the installation instructions on the screen and then restart the PC.
- Connect the green (WiBu) copy protection dongle to a USB port on the PC (2).
- Connect the LoligoBT to a wall outlet and power it on. The LoligoBT is ready to use when the Bluetooth LED lights blue (3). Connect your WTW instrument to a USB port on the PC.
- Open LiteCTRL. Choose **Scan for new devices** (4).
- In the **Devices** menu, follow step 1-3 on screen (5), and press OK. Wait for LiteCTRL to find your WTW instrument and LoligoBT. Activate your WTW instrument by following the instructions on screen (5.1). Now configure the relays you want to use (Conductivity, Temperature or both) and press **Configure** (5.2). The configured relays will now be highlighted on the LoligoBT (5.3).

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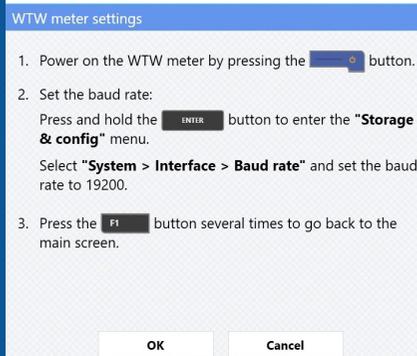
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## FOR EACH TRIAL

- Repeat step (2-3), and open LiteCTRL. Choose **Use current configuration** and complete step (5). Connect submersible pumps and/or solenoid valves to the respective relays on the LoligoBT. The function of each relay is shown on the LoligoBT in the *Devices menu*.
- Now, click **Experiment** in the main menu. Open the **Conductivity** and/or **Temperature regulation** menu (7), and choose a desired regulation type. For the *Ramping, Automated* and *File* regulation type, you can get a visual representation of the protocol by clicking the button. Press *Apply* and then *OK* to save the settings.
- Finally, click **Start logging**. Follow steps 1-4 on screen (8). This will empty the WTW instrument memory, and will set the sampling rate and duration of the experiment. Click *OK* to open the file prompt, and click *Save* to start logging data to an Excel file.
- IMPORTANT:** The WTW instrument has a limited memory capacity. When logging starts, the maximum time that the instrument can log is displayed on the WTW instrument in the lower right corner under **Max time** (7). The *Max time* is based on sampling rate and duration settings. Once the *Max time* hits 0, the WTW instrument will stop collecting data to LiteCTRL (i.e., the memory is full!), but logging will continue in LiteCTRL until you press **Stop logging**.  
  
The logged data are now available in the Excel file.

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5.1

### Activate WTW meters

Please make sure that the WTW meter has been powered on by pressing the button.

Then press the **F2** button to send a measurement value to the PC.

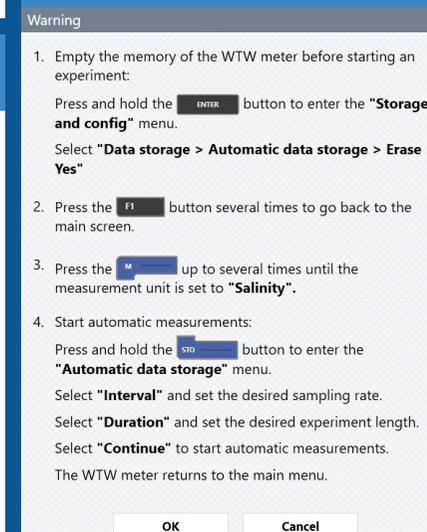
Active meters 0 / 1

5.2

### Configure relays



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## OPTIONAL

- You can design your own protocol in the **Protocol designer** from the main menu. In the *Settings panel*, you can adjust the protocol settings, and the adjustment changes will be displayed on the protocol graph. The *Settings panel* also contains an *Export to Excel* button and a *Style menu* in the drop-down menu. Hit the *Save* button to save your current protocol.
- In the **Settings** menu on the main menu, you can reset all settings in LiteCTRL. You can also change the *Moving average values* (e.g., *Conductivity movavg*) which will set the number of data points that should be averaged in the data graph. The *Log file* and *Copy support data to clipboard* functions are for technical support matters.

5.3



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