

# Mercury



Application Software for Star-Oddi data logging system



**STAR : ODDI**

Logging Life Science

## Table of Contents

1	Downloading and Installing Mercury.....	3
2	Connecting to a recorder .....	4
2.1	Communication Box.....	4
2.2	Connection Wizard.....	5
3	Setting up the recorder and retrieving data .....	6
3.1	Choose the recorder type .....	5
3.2	Communication.....	6
3.3	Connect to the recorder .....	6
3.4	New Measurement Sequence (NMS) Calculation .....	7
3.5	Disconnect recorder.....	10
3.6	Download data.....	10
3.7	View data.....	11
4	Help menu.....	12

This is the Quick Start Guide for **Mercury**. The whole user manual is included with the software under the **Help** menu.

Changes may be made without notice.



# 1 Downloading and Installing Mercury

Mercury runs under Windows operating systems. There are two versions of Mercury available, standard version and a Long-Term Support (LTS) version. An LTS version is a parallel version of the standard software but remains unchanged for a longer period of time, except for necessary bug fixes.

To download **Mercury** visit: [www.star-oddi.com/support/software](http://www.star-oddi.com/support/software). To install the program, follow the automatic InstallShield Wizard.

During installation you need to enter the product key found on the inside of the accompanying cover. Please keep the product key in a safe location as you may need it for future use.



## 2 Connecting to a recorder

### 2.1 Communication Box

The Communication Box is a USB compatible communication interface, specially designed to communicate with DST recorders wirelessly via RF (radio frequency). The supplied USB cable connects directly from the box to a PC computer. The USB driver should automatically install on the computer, if not then download from [www.star-oddi.com/support/software](http://www.star-oddi.com/support/software).

The Communication Box has three diodes:

1. **Red** – shows that power is fed to the Communication Box.
2. **Yellow** – shows that Mercury has made connection with the box and the correct COM port has been selected.
3. **Green** – shows that the recorder is connected

You may need to use the Connection Wizard to get the yellow and green lights. See chapter 2.2.

The green light will not turn on unless the red and the yellow lights are on. The recorder is inserted into the box as shown in the figure below. Please make sure that the logger is dry.

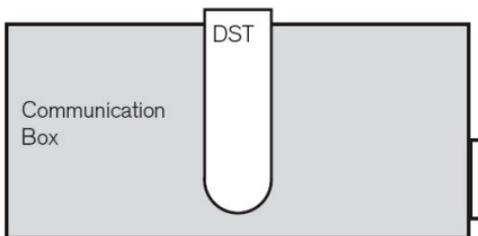


Figure 2.1 Inserting recorder into the Communication Box

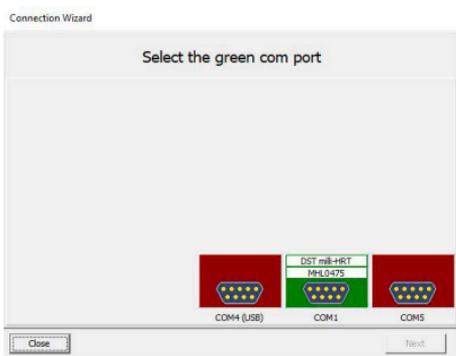


## 2.2 Connection Wizard

If you are starting the software for the first time, you will be asked if you want the **Connection Wizard** to open automatically each time you start Mercury. If you change your mind you can always change the settings under **Settings-Options-Startup**.

If you wish to program and start up the logger manually go to chapter 3.

Connect the USB cable between the PC and Com Box and the selected port will appear in the wizard window.



In the Connection Wizard, click once on the green-lit port and select **Next** or double-click on the port.

Figure 2.2 Com port wizard

The Connection Wizard opens:  
Follow the instructions in the wizard.

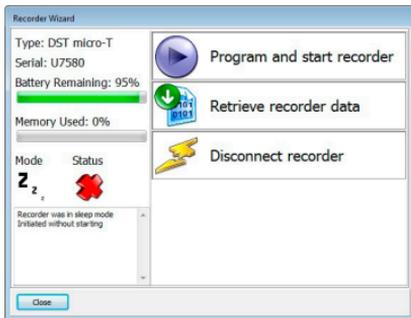


Figure 2.3 Recorder Wizard



## 3 Setting up the recorder and retrieving data

If you have already connected to the logger via the wizard, then please go to chapter 3.4.

### 3.1 Choose the recorder type

Choose the recorder type in the File menu, under **New Recorder Type**.

### 3.2 Communication

Connect the Communication Box as described in chapter 2.

### 3.3 Connect to the recorder

Choose the **Recorder** menu and then **Connect**.

A window appears with information on the recorder's mode:



Figure 3.1 Connecting to the recorder

Press **OK**. The Recorder is now on-line, as indicated at the bottom of the Mercury window.



## 3.4 Set new measurement sequence (NMS)

Choose the **Edit menu** and **New Measurement Sequence Definition** and then either **Single recording interval** or **Multiple recording intervals**. If choosing single interval, the following window appears:

Set New Measurement Sequence

Set start time

Start date: 13. 3 .2017

Start time: Hour 11 Min 55

Set measurement interval time

Hours 1

Minutes 0

Seconds 0

Set Mode

Single mode

Multi mode

Use Template

Use Default

Previous

Save this NMS definition as a Template (file)

Estimated Meas. Period (days): 7

OK Cancel

Figure 3.2 Measurement sequence definition



Set the start time of recording and the sampling interval.

Depending on recorder type, parameters can be set as primary and secondary with different sampling frequency.

If you want to program several recorders with the same sampling interval and start time, it is recommended to select **Multi Mode** under **Set Mode**

**Mercury** offers the option of setting up more than one sampling interval within a measurement sequence. Please refer to the **Multiple Intervals** chapter in the user manual.

After the settings have been selected, press the OK button.

If you are using the wizard, the software will automatically start the new measurement sequence (start recording) and disconnect the logger. If not, choose the **Recorder** menu and **Start New Measurement Sequence** command.

A window appears on the screen in order to verify the settings to be downloaded into the recorder:

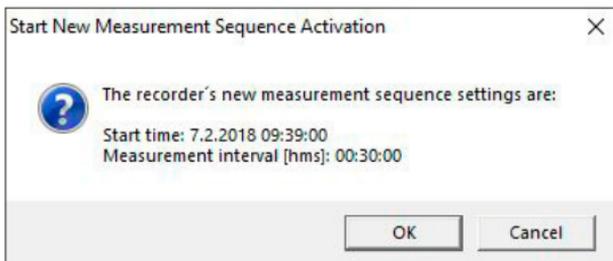


Figure 3.3 Start new measurement sequence





## 3.5 Disconnect recorder

After the recorder has been set up for measuring, it should be removed from the Communication Box. If the recorder is not put in measurement mode, it will automatically go into sleep mode when removed from the box.

## 3.6 Retrieve data

When connecting to a logger after a measurement period, the following window appears.



Figure 3.5 Retrieve recorder data?

Click **Yes** if you wish to retrieve the data, click **No** if you would like to retrieve it later. If you are not using the wizard choose the **Recorder** menu, **Connect** and the **Retrieve Data** command. Data is automatically stored in the **Mercury** directory on the computer.

You can repeatedly read the data without erasing it from the memory. Each time data is retrieved, a new file will automatically be created. The name of the data file consists of the measurement sequence number and the serial number of the recorder. The recorder cannot be programmed with new settings if it contains data that has not been retrieved. New recordings overwrite previous recordings that have been retrieved.



After you have retrieved the data you can either start a new measurement sequence or disconnect and put the recorder into sleep mode.

## 3.7 View data

When data is retrieved from the recorder, a new file will automatically be created and opened in graphical and tabular form.

To open existing data files on the computer, choose the **File** menu, and **Open > Browse for Recorder Information Files (\*.INI \*.RID)**. The data (DAT file) can be exported to other programs for further analysis. In the graphical window there is a button called **Export as Workbook** where you can export the data to Excel.



## 4 Help menu

### User manual

Select **User Manual** to open the recorder user manual.

### Troubleshooting

Select **Troubleshooting** to open the Trouble-Shooter.

### Check for updates

Mercury will automatically search the Star-Oddi website every time the program runs for the latest version of the software, User Manual, Trouble-Shooter.

This can be changed under **Settings-Options-Updates**.

You can also check for updates manually by choosing

**Help-Check for Updates**.