



## Brief instructions MSR160



You will find software updates and answers to frequently asked questions in the at  
[www.cik-solutions.com](http://www.cik-solutions.com)

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### 1

#### Installing the MSR PC software

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- Download the installation program for the MSR PC software from the Internet:  
[www.cik-solutions.com/en-msr-support](http://www.cik-solutions.com/en-msr-support)
- Launch the installation program and follow the instructions to install the MSR PC software onto your PC.

## 2

### Connecting the MSR data logger to your PC

- Connect the MSR data logger with your PC with the aid of the USB cable supplied.
  - The orange LED of the data logger indicates that the battery is charging.  
**Please note:** The data logger cannot be switched off while it is connected by means of the USB cable.
- Important Notice:** In order to prevent damage and to increase life of the data logger's battery, do not completely discharge it. It's recommended that you fully charge the battery before longer storage periods.
- Launch the MSR PC software and double click on "Setup" in the program selection window to launch the Setup program.
  - If necessary select in the program window the port of your PC to which the data logger is connected.
  - The window of the Setup program displays the state of the data logger and the connected sensors. Click on the "Read" button to refresh the window. Click on the "Configuration" button to configure the data logger.

## 4

### Transferring data to a PC

- Connect the data logger again to the PC using the USB cable and launch the MSR PC software.
- Double click on "Reader" in the program selection window to launch the Reader program with which the recorded data is read-out and transferred to the PC.
- Confirm that you want to end the measuring process. The list of the measuring processes saved on the data logger is then displayed.
- Select the measuring process you wish to transfer (= "Record") and click on the "OK" button to start the data transfer.
- The name and path of the data file which has been created is displayed in the window of the "Reader" program. At the same time the "Viewer" program automatically opens with which you can view the data as a graph, analyse it and export it via the file menu.

## 3

### Starting data recording

- In the "Main storage rate" field of the setup program window, set the interval "t1", which is to be used for taking and storing measurements.
- In the "Sensors" field, set for each sensor, whether measurements are to be recorded at sensor rate "t1" or whether the sensor is to be switched off ("off").
- Select the option "Start immediately".
- Click on the "Write basic settings" button to transfer the configuration to the data logger and to start recording.
- You can now disconnect the data logger from the USB cable.



### SD card (optional)

- Prepare the data logger for the measuring process by means of the setup or shock program (see item 3 "Starting data recording").
- Insert the supplied microSD card into the card slot of the data logger. A green LED above the card slot lights up for approximately 2 seconds to indicate that the SD card can be used.
- To transfer the data from the SD card to your PC after the measuring process, remove the card from the data logger and insert it into your PC, using a card reader.
- Start the MSR PC software and double-click "CARD Reader" to start the program. In the CARD Reader program window, click "Start".
- In the window that appears subsequently, select the measurement file and click "OK" to confirm. Depending on the data volume, a measurement can be distributed across several measurement files. Click "Next" to read another measurement file.