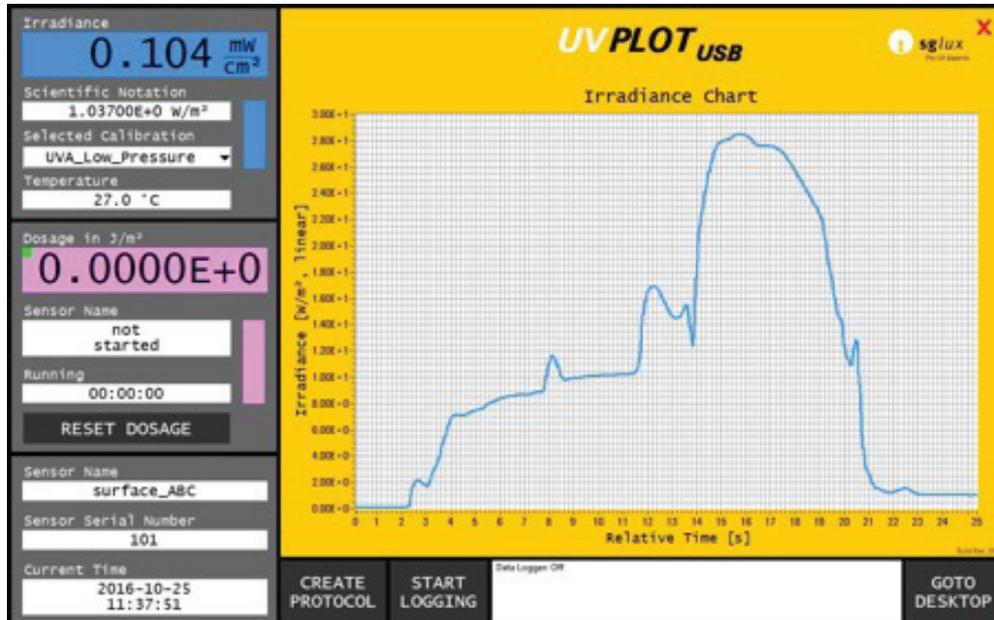


UVPLOT

Radiometer/Datalogger for use with the sglux USB UV sensors

GENERAL FEATURES



Properties of the UVPLOT

The UVPLOT is a Radiometer/Datalogger for use with the sglux USB UV sensors. It bases on a ready to use 8" tablet computer with pre-installed software. The sglux UV sensor can be connected via USB.

GETTING STARTED

Connect the sensor to the UVPLOT and push the power button for 3 seconds and let the computer boot and start the software. The software can also be started manually at any time by double-clicking the UVPLOT icon on the desktop.

FEATURES OF THE UVPLOT

Irradiance Value

The irradiance value is displayed in an user-selected unit for instance in $\mu\text{W}/\text{cm}^2$ or mW/cm^2 . Furthermore the value is shown in scientific notation with the SI base unit W/m^2 .

Wiping across the irradiance value activates and deactivates the data hold function.

Probe Temperature

The internal temperature of the probe is displayed in degree Celsius.

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Dose Measurement

The dose measurement is started by wiping horizontally across the dose value.

A second wipe pauses the measurement and a third wipe continues the measurement again. Pressing the “RESET DOSAGE” button resets the value to zero.

Graphic Display

Short wiping across the display toggles between irradiance and dose information. Long wiping resets the chart.

Wiping across the y-axis switches between logarithmic and linear axis.

Protocol

Pressing the “CREATE PROTOCOL” button creates a protocol that e.g. can be used to issue calibration certificates. This protocol is saved on drive D (the SD-card) in the folder “D:\uvPLOT” and consists of two files:

- a) a HTML file (can be opened with each web-browser)
 - all measurement values present on screen (irradiance and dosage)
 - graphical plot as shown on screen
 - sensor information such as name and serial number, date and time, current irradiance and dosage values
- b) an JPG file containing a screenshot of the program

The filename is auto-generated from date and time, sensor name and calibration.

Datalogger function

Pressing the button “START LOGGING” starts and ends the logging function. The CSV formatted logging file is saved on drive D (the SD-card) in the folder “D:\uvPLOT” and contains the following information:

- system and username, date and time, version information for the software
- information about the sensor, e.g. it’s name, serial number
- all readings taken while the logging is active

The filename is auto-generated from date and time, sensor name and calibration.

Accessing to the desktop

Pressing “GOTO DESKTOP” minimizes the software and shows the desktop. Logging and dose measurement function is not interrupted. You can return to the program at any time by clicking the program on the taskbar.