eelectron

eSensorCalibration Software

USER MANUAL

Translation of the original instructions

Version: **1.0**

Date: **11/04/2023**

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VERSION	DATE	CHANGES
1.0	11/04/2023	-

1. Purpose of the manual

"eSensorCalibration" by Eelectron SpA is a simple software to calibrate the sensor by setting the internal curve of the lamp and the ratio between natural light and artificial light. The software can be used with sensor Eelectron product: PD00E1xKNX.

2. Installation requirements

To install and use the application, it is necessary WINDOWS® operating system (WINDOWS 7 or higher) and Microsoft© .NET Framework 4.6.1 or higher ; this one is already present if used on a PC with ETS5 or ETS6 installed.

3. Download application

Download the application from site www.eelectron.com and save it on the PC. The application does not require installation, it is enough to extract the files in a PC directory.

4. Connect the device

- Power on the device, the sensor must be connected both to the bus KNX;
- Connect the PC to a KNX interface, then launch the application by clicking on the executable file eSensorCalibration.exe.
- Verify terms and conditions of the manufacturer before using the software by clicking on "Help - About".
- Use the drop down list to select the KNX interface and click on 'Connect' to start the configuration.
- Click on "Refresh" to update the list of available connections.

ETS Parameters

Number	Name	Object Function	Description	Group Address	Length	C	R
9	<Illuminance> Output	Lux	New group addre...5/6/123	⑨	2 bytes	C	R
10	<Illuminance> Calibration Setpoint	Lux	New group addre...0/1/244		2 bytes	C	R
11	<Illuminance> Calibration Action	0-255	New group addre...5/6/124		1 byte	C	R
12	<Illuminance> Command/Status Lamp	0-100%	New group addre...0/4/70		1 byte	C	R

STEP 1	In ETS, in the "**Group objects**" page set the addresses for every object by clicking the right mouse button in the Group Adress fields ⑨ and select "**link with**".
Link With Group Address -.-.- Presence Detector SPACE BLE Sensor E13 Object: 9: <Illuminance> Output – Lux Existing New Group Address 0/4/71 Name OK Cancel	Fill the cell with the corresponding address.

Calibration procedure

STEP 2	Enter in the text boxes: ① • the physical address of the device • the group address of the calibration setpoints • the group address of the lamp • the control setpoint
STEP 3	Set the regulation setpoint (the calibration will give values optimal around that point), setting the text box **"Setpoint [Lux]"** ② and pressing the **"Send setpoint value"** ③ button
STEP 4	Inform device to memorize sent setpoint using the button **"Acquire setpoint value"** ④ and waiting for the confirmation of the device.
STEP 5	Put yourself in 100% artificial light condition (evening or rolling shutters lower).
STEP 6	Change the brightness of the lamp so that you have on the luxmeter the desired setpoint from the table, using the trackbar and the button **"Send lamp value"** ⑤
STEP 7	Inform the device to store the measured Lux value using the **"Acquire 100% artificial"** ⑥ button and wait for confirmation (10 seconds).
STEP 8	Launch the lamp points acquisition command (**"Start lamp 1 sampling"**) ⑦ , the software will control the lamp using the configured group address and wait for confirmation (two minutes).
STEP 9	Minimize the input of artificial light and achieve the setpoint on luxmeter using only natural light
STEP 10	Inform the device to store the measured Lux value using the **"Acquire 100% natural"** ⑧ button and wait for confirmation (10 seconds).
STEP 11	Press the **"Calibration end "** button ⑨ and the calibration is completed.

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