Sunmeter PRO configuration with Solar-Log Base 100

User Manual

Issue 01
Date 26-01-2024

About This Document

Purpose

This document introduces the configuration set up of the Soluzione Solare sensor, Sunmeter PRO, with Solar-Log Base in terms of firmware configuration, operations, and wire connections.

Intended Audience

This document is intended for consumers of Soluzione Solare sensors and qualified electricians.

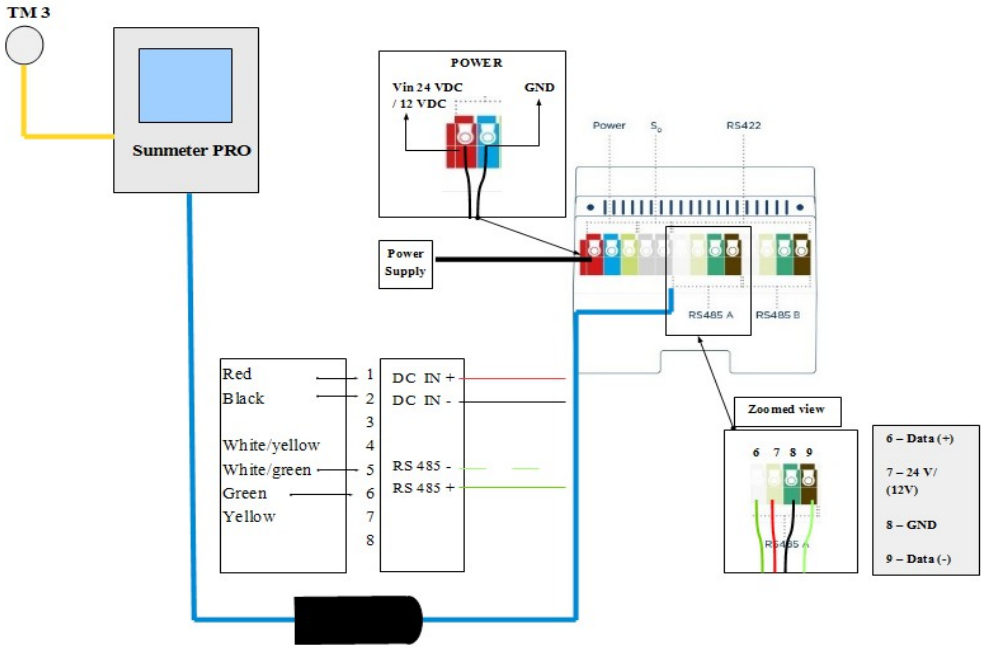
NOTICE

- The screenshots are for reference only.
- The parameter names, value ranges, and default values are subject to change. The actual **display prevails.**

1. Setting up Sunmeter PRO with Solar-LOG

For wire connections, please refer to the wire connection scheme diagram below.

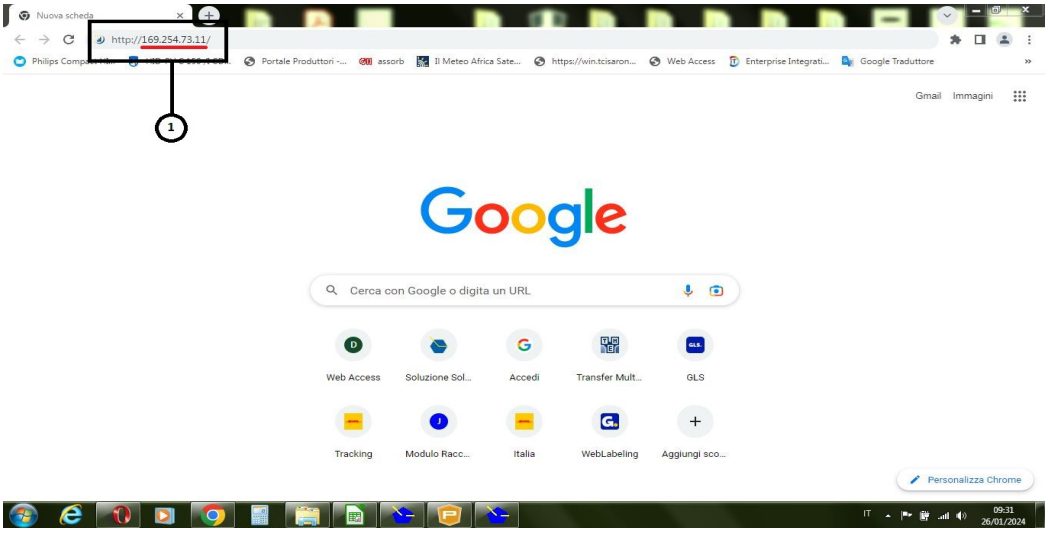
(Notice: You can use both +12v and +24v power supplies, but if the wire length is more than 80 meters, it is recommended to use +24v. Please refer to the wire connection scheme diagram below.)



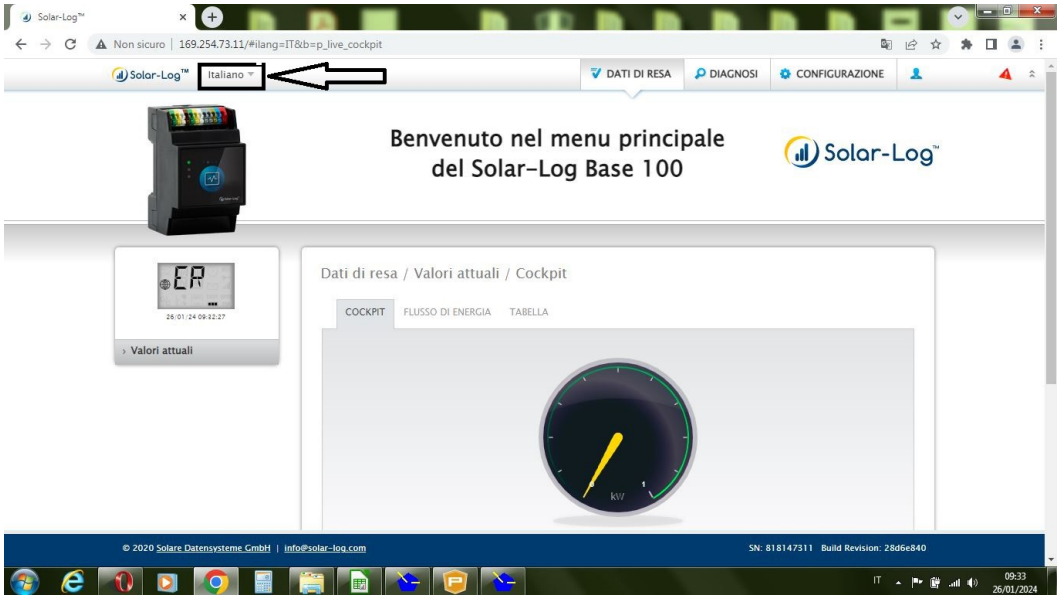
1.1 Commissioning Using Deployment Wizard

First, use an Ethernet cable (ETH1 or ETH2) to connect Solar Log to your PC.

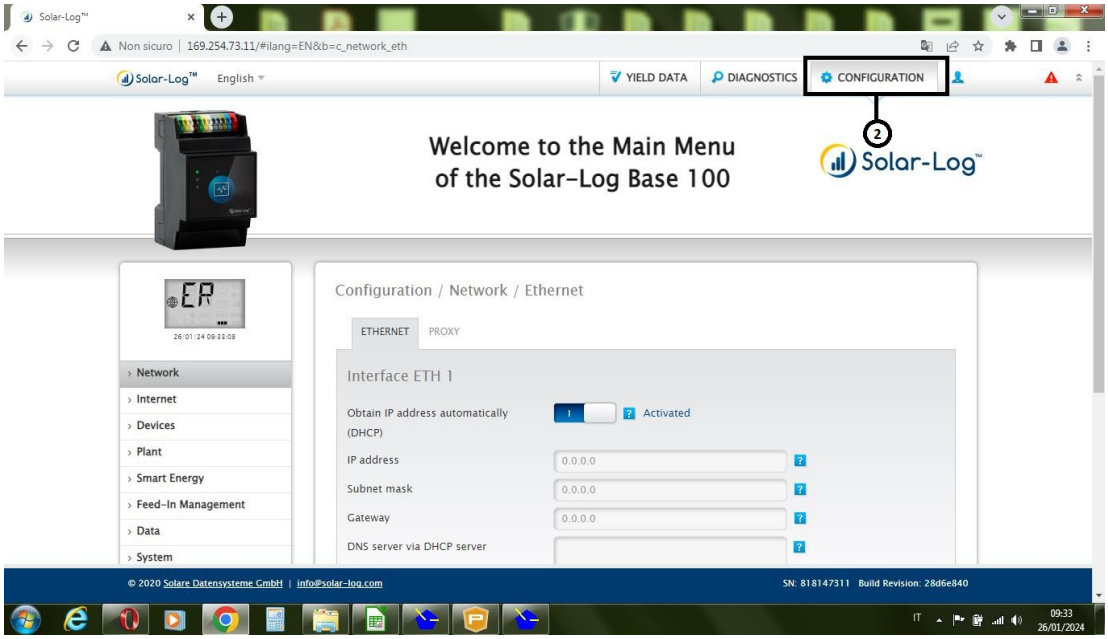
- Once the cable connections between Sunmeter PRO and Solar Log Base has been made successfully, the corresponding web UI should be opened. (please refer to Solar-LOG base User Manual by Solare Datensysteme GmbH)
- Start your PC's Web browser, enter 169.254.wx.yz in the address bar, and press the ENTER key to access the Web menu.
  - (Notes: wx.yz stands for the last 4 digits from the serial number of the Solar-Log base; the serial number can be located by scanning the QR code on the Solar Log.)



- The web page of the Solar-Log will open and the web page by default is in Italian; if required in English, it is advised to choose it from the options. See below the photo for that.



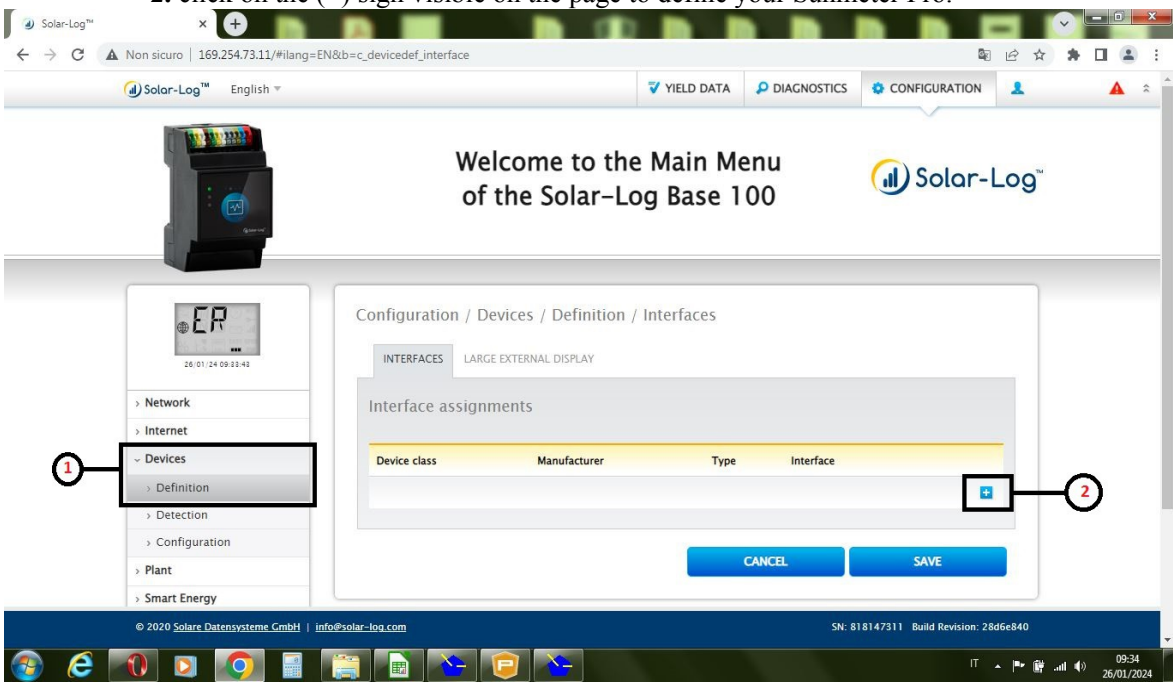
- Now click on the Configuration tab to define, detect, and configure your device to the Solar-Log base. The procedural steps are mentioned below for a better understanding of the configuration.



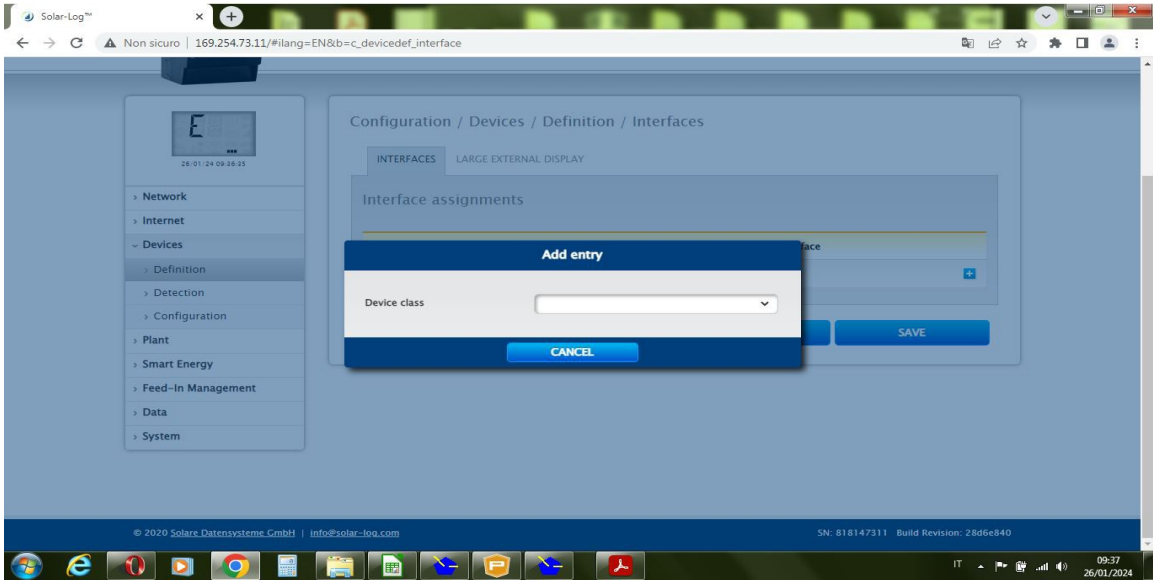
1.2 Configuration of the Solar-Base 100 in the Web Browser

Step 1. Under the Configuration tab

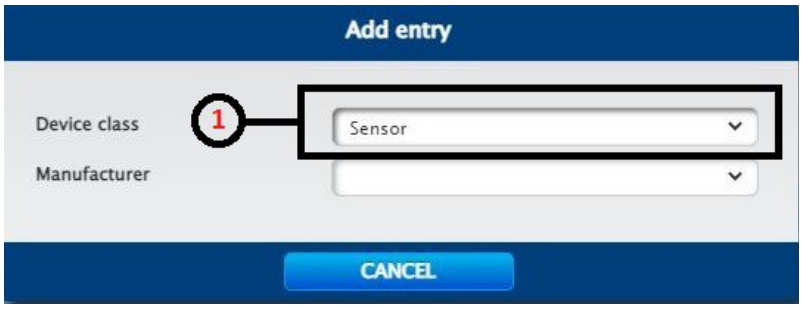
1. click on the Devices → Definition (Where by default in the interface dialogue is opened).
2. click on the (+) sign visible on the page to define your Sunmeter Pro.



Step 2. The Device Class dialog box opens, where we need to select the required configuration to setup the device.

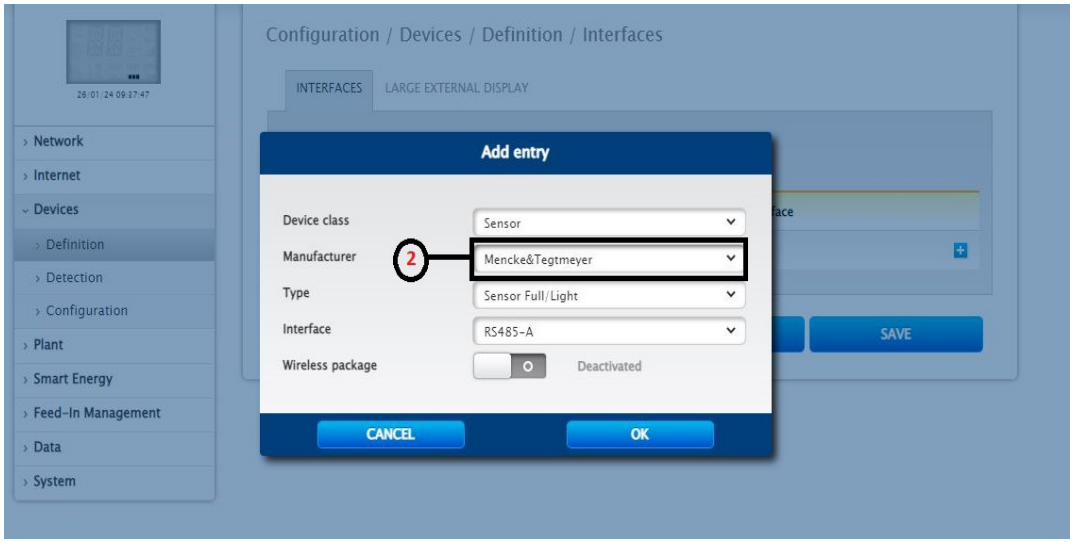


Step 3. 1. Select Sensor under the device class, and then

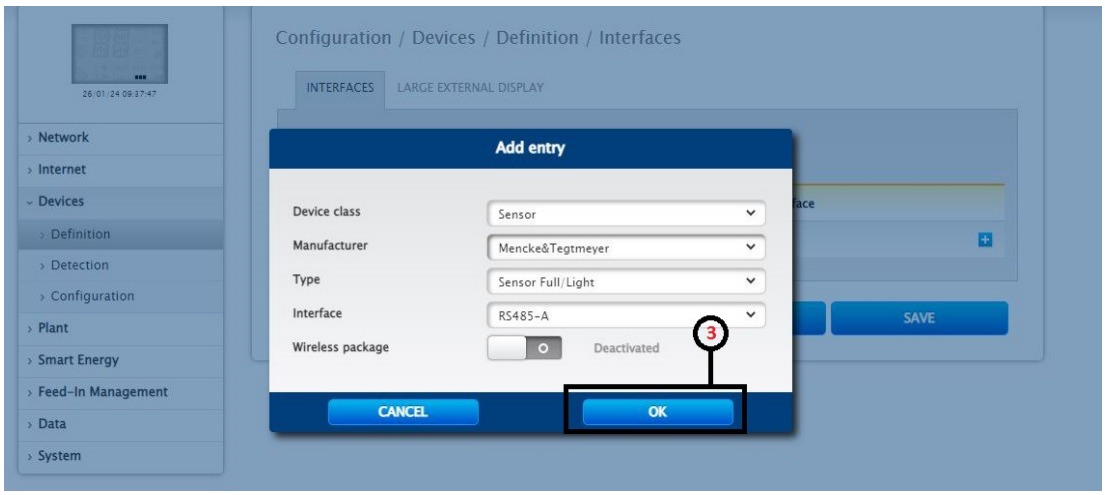


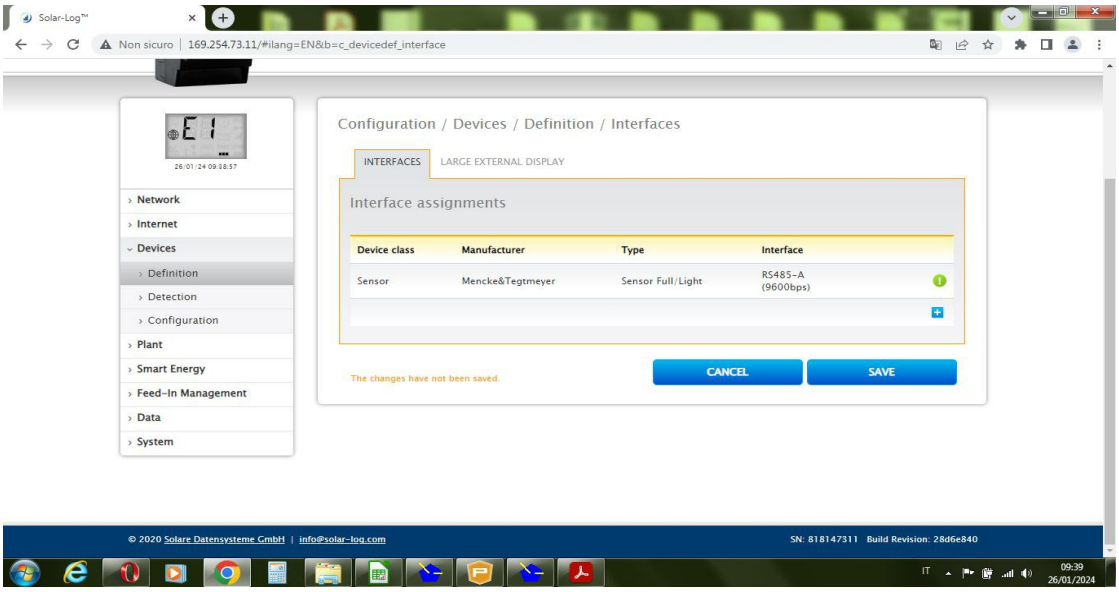
2. Select Mencke&Tegtmeyer under the manufacturer box.

(Note: It is not recommended to use any other manufacturer except for Mencke & Tegtmeyer; if used, it would cause some issues.)

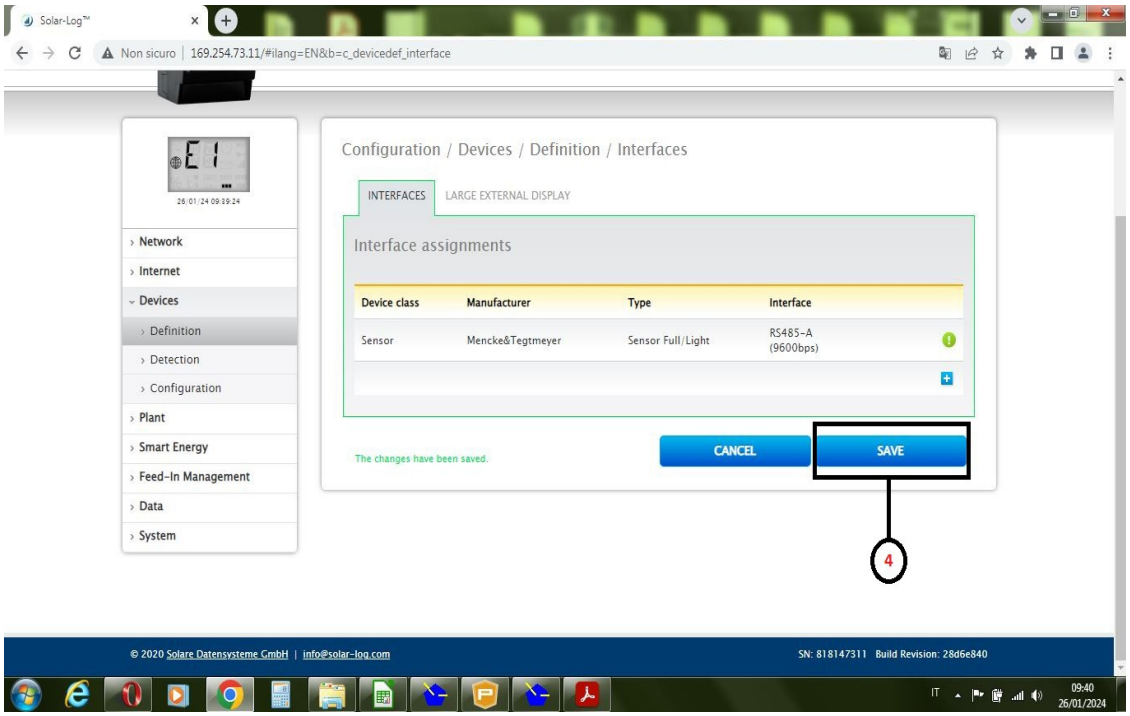


3. By Default the Type – Sensor Full/Light and the Interface is RS485 – A so with the same selection click on OK. (Note: If the connection from Sunmeter Pro to the Solar-Log base is made on RS485 B, then under the interface, from the entry dialog box, select RS485-B.).



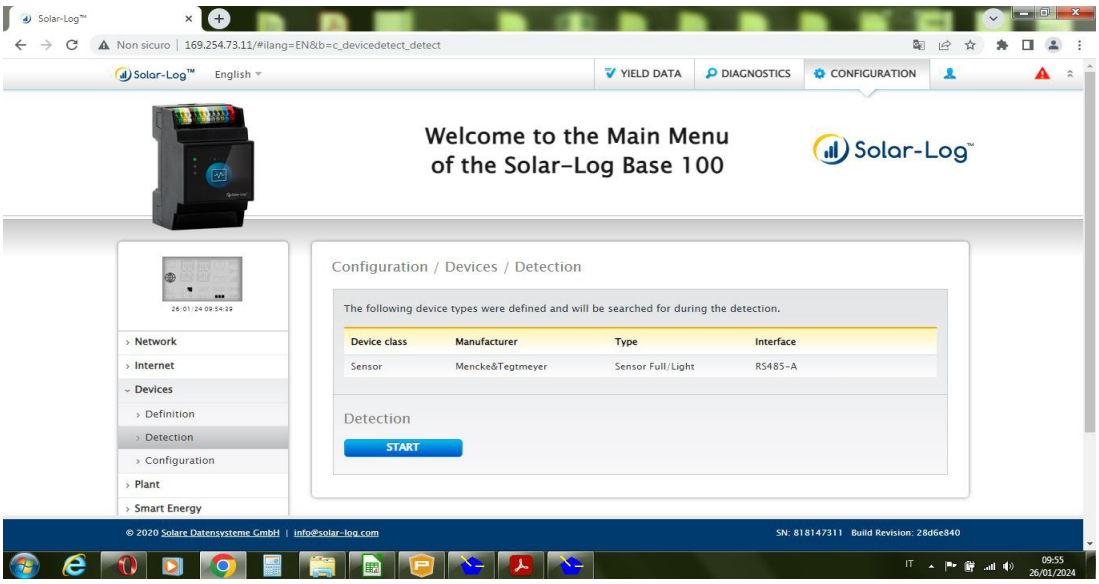


4. Click on the Save button to save the required changes made on the interface.

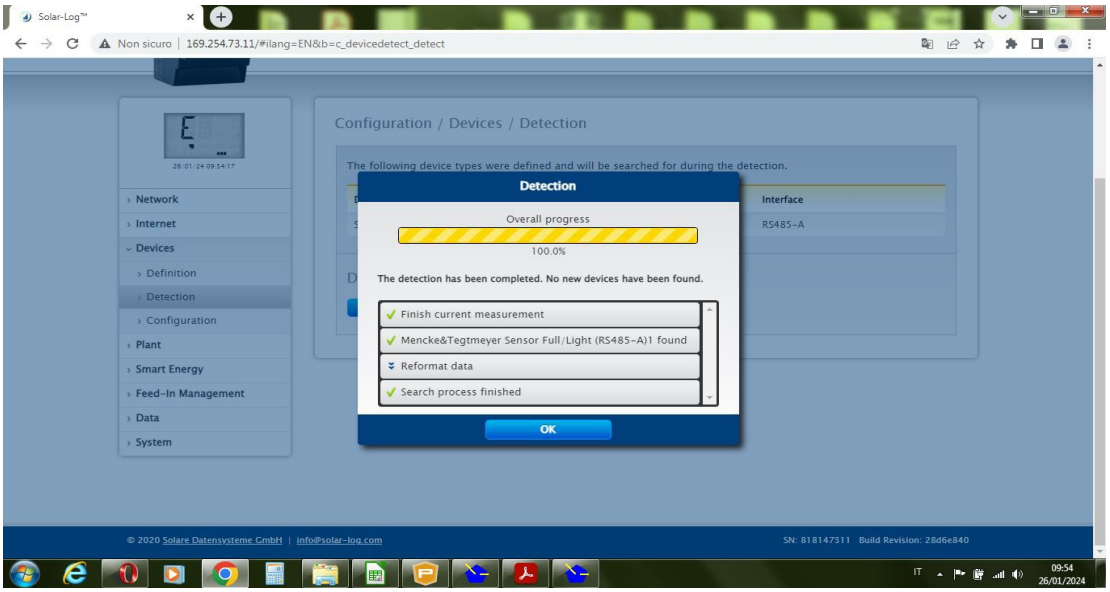


1.3 Detection of the Solar-Base 100 in the Web Browser

Step 1. **1.** Select the detection from the devices. Now, if you cannot see the defined device, click on the Start button, and then the detection progress begins.



2. The Progress dialog box appears and the detection progress proceeds.



1.4 Measuring the Yield data of the Solar-Base 100 in the Web Browser

Step 1. After all the settings and configurations are made, go to the yield data and select sensor to see the graph where readings are recorded, which is shown as per the below image.