

Simon Kerstan (simon001) - Public Page

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Now, write something! 😬

Main devices used

- Arduino MKR Wifi 1010



- Arduino MKR ENV Shield



- Capacitive Soil Moisture Sensor



- OLED Display 1,3 Zoll



- LiPo Akku Lithium-Ion Polymer Batterie



| Devices used | Function |
|---|--|
| Arduino MKR Wifi 1010 | module which is used for exporting and controlling all the gathered information |
| Arduino MKR ENV Shield | able to plot several environmental entities |
| Capacitive Soil Moisture Sensor | sensor monitoring the water content in the soil and provides this information to the ... |
| OLED Display 1,3 Zoll | displays the ... gained by the measurement devices |
| LiPo Akku Lithium-Ion Polymer Batterie | provides energy for the controller as well as the sensors |

| time | Moisture with vegetation | Temperature in °c | Pressure in hPa | Humidity | Illuminance in Lux | UV Index | Moisture of pure soil |
|----------|--------------------------|-------------------|-----------------|----------|--------------------|----------|-----------------------|
| 08:09:03 | 50,00 | 21,18 | 97,44 | 61,72 | 412,90 | 0,04 | 40,00 |
| 08:39:05 | 50,00 | 21,79 | 97,43 | 58,85 | 429,03 | 0,04 | 40,00 |
| 09:09:07 | 50,00 | 21,85 | 97,45 | 58,98 | 779,03 | 0,04 | 40,00 |
| 09:39:09 | 49,00 | 22,03 | 97,44 | 57,67 | 977,42 | 0,05 | 40,00 |
| 10:09:11 | 50,00 | 22,14 | 97,45 | 57,08 | 877,42 | 0,05 | 40,00 |
| 10:39:12 | 49,00 | 22,13 | 97,46 | 57,55 | 787,10 | 0,05 | 40,00 |
| 11:09:14 | 49,00 | 22,24 | 97,50 | 57,64 | 1191,94 | 0,06 | 40,00 |
| 11:39:15 | 49,00 | 22,22 | 97,50 | 57,57 | 1451,61 | 0,06 | 40,00 |
| 12:09:17 | 49,00 | 22,37 | 97,52 | 58,48 | 1587,10 | 0,06 | 40,00 |
| 12:39:18 | 49,00 | 22,76 | 97,54 | 56,99 | 1590,32 | 0,06 | 40,00 |
| 13:09:20 | 49,00 | 22,85 | 97,56 | 56,60 | 1503,23 | 0,06 | 40,00 |
| 13:39:21 | 49,00 | 22,65 | 97,55 | 57,32 | 1075,81 | 0,07 | 39,00 |
| 14:09:23 | 49,00 | 22,33 | 97,60 | 59,08 | 956,45 | 0,07 | 39,00 |



Figure 3 Schematic of the connections between ESP32 and the modules and parts.

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