



## Product Description

Thank you for buying our product **MURAQEB-Thermal Advanced**.

**MURAQEB-Thermal Advanced** consists of a Logger Unit and Wireless Sensors. The Logger Unit collects Temperature & Humidity measurements from the surrounding Wireless Sensors and stores them. These measurements are also uploaded to the cloud.

**MURAQEB** connects to the internet via WIFI.

**MURAQEB** can be monitored via your PC/mobile from local network or over the Internet.

**MURAQEB Advanced** can issue alerts for high/low Temperature & Humidity and can send them over emails, SMS Messages, or Phone Calls as per your preferred settings.

**MURAQEB** can present measurements in Excel format and graphs.

**MURAQEB** uses Sensors with Long-Range Bluetooth Technology which can reach ~100m in an open space. Sensor battery lifetime 18~24 months replaced by standard batteries.

The accuracy of the Sensors is unbeatable,  $\pm 0.2^{\circ}\text{C}$  (T) /  $\pm 2$  (%H).



## Warranty

- Product warranty: 2 years.
- This product is warranted to be free of defects in material and workmanship during the warranty period starting from the date of purchase.
- This warranty does not extend to any defect, malfunction or failure caused by the below. In such cases, AFKAR DIGITAL shall not be liable for any replacement or any compensation caused by the incompliance or misuse of the device:
  - The misuse which is not complying with the Safe Operating Instructions.
  - Malfunction related to over-voltage/instability of the AC Electricity.



## Safe Operation Instructions

Please read the Instructions for Safe Operation carefully before using this product.

- Keep the Logger Unit and Sensors out of reach from children or infirm persons.
- Take care while handling this product to avoid any mechanical or electrical damage.
- Ensure that the Logger Unit is mounted in a stable horizontal or vertical position as per the instructions.
- If the Electrical Adapter is damaged or malfunctioned, replace it by another Adapter of same type (micro-USB) rated 5V/3A. Contact your local dealer for replacement.
- Any Electrical Adapter used with this product must comply with relevant regulations and standards applicable in the country of intended use.
- **MURAQEB** is for Indoor use only. Outdoor use is strictly prohibited.
- DO NOT expose **MURAQEB** to rain as it will result in electrical hazards.
- DO NOT install **MURAQEB** in a dusty place.
- DO NOT expose **MURAQEB** to water or moisture.
- DO NOT expose **MURAQEB** to high intensity light sources (e.g., xenon flash or laser).
- DO NOT expose **MURAQEB** to heat from any source and DO NOT expose to fire.
- Clean the Logger Unit and Sensors using a dry cloth.
- Do Not try to open the Sensors or Logger Unit as this will result in cancelling Warranty
- Contact your local dealer for replacing the batteries of the wireless sensors.

## Disposal

Do not dispose electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available. If electrical appliances are disposed in landfills or dumps, hazardous substances can leak into the groundwater and get into the food supply chain, damaging your health and well-being.

## Compliance

CE / FCC



## 1. Installation

You can download the **Installation and Configuration Manual**, including viewing the Demo Videos from our website:

<http://www.afkardigital.com> >> Products >> Mini Products



### 1. Open and check what is inside your **MURAQEB** box

- Product Description, Warranty, & Safe Operation Manual
- 4 screws with anchors.
- Wireless sensors & double-face stickers. The number of sensors can be from 2 to 5 according to your order.
- WIFI Logger Unit.
- Electrical adapter rated 5V/3A.



### 2. Take out the Logger Unit from the box.

### 3. Decide where you want to mount the Logger Unit, options are:

- Vertical mounting on a wall using the attached screws with anchors.
- Horizontal mounting on a clean surface, shelf, table.
- Vertical mounting on a D25 rail for industrial use.





4. Take out the electrical adapter from the box, connect it gently to the DC-IN Socket of the Logger Unit. Pay attention to the right direction.
5. Connect the adapter to an AC socket. Use a Power Extension If needed.



6. Take out the wireless sensors from the box.
7. Notice the small push button at the back of the sensor
8. Press gently on the push button for (~4 seconds) until you see a blue light illuminated at the front of the sensor. The blue light will illuminate continuously for ~4sec and then disappears. The sensor now is turned ON.



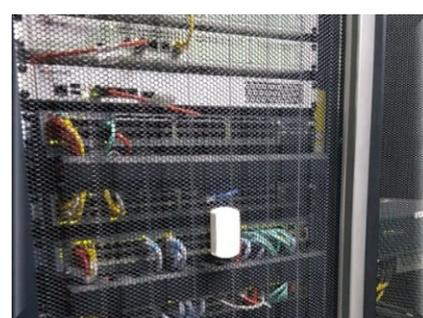
9. Repeat the same steps for all wireless sensors coming with **MURAQEB**.

### 10. Mounting the Wireless Sensor

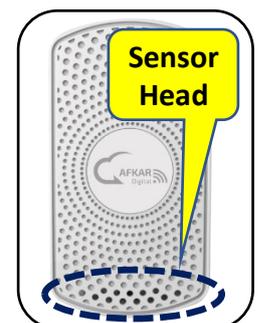
- Fix the double-face sticker at the back of the sensor and mount the sensor vertically at any smooth place. Mount firmly.



- You can mount the Sensor horizontally on a clean surface, shelf, table.



- Ensure the sensor head is facing the air flow so that the sensor can measure temperature & humidity correctly.





## 2. Configuration

### 2.1. Creating your Cloud Account

11. In your web browser, type <https://hudhud.smarturdon.com/>

12. Click on **Register as a new user**.

- Fill in **Username / Password**
- Fill in a valid **email address** & a working **mobile number**

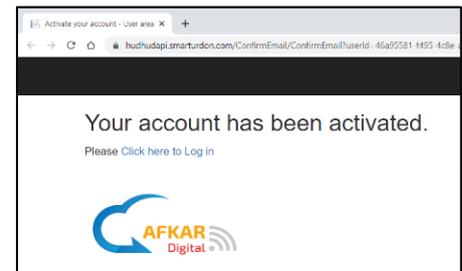
Note: By filling a valid phone number you will receive important information about your product thru SMS messages.

13. Click on **Register**

14. A confirmation email will be sent to your inbox. For GMAIL, this might take up to ~3min. Pls also check your **Junk/spam** folders.

15. Once you receive the email, click on the link provided to activate your account.

16. If you see as in the aside, it means your account has been created successfully.



### 2.2. Adding MURAQEB Advanced to your Cloud Account

17. In your web browser, type <https://hudhud.smarturdon.com/> and login to your account which you have just created in the previous step.

18. Your subscription determines the number of users who can simultaneously access **MURAQEB** thru the internet. Select any user ID, later you can give names to the IDs for more convenience.

19. To start adding **MURAQEB** to your account, click on **+**

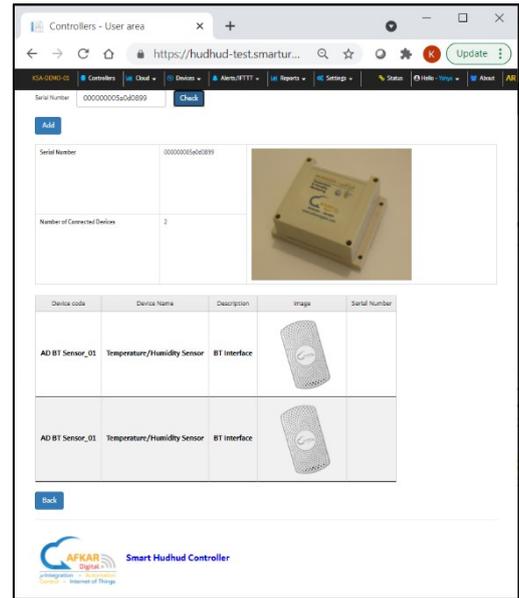
20. Fill in the Serial No. of **MURAQEB** which is labeled at the back of the Logger Unit, then click on **Check**.



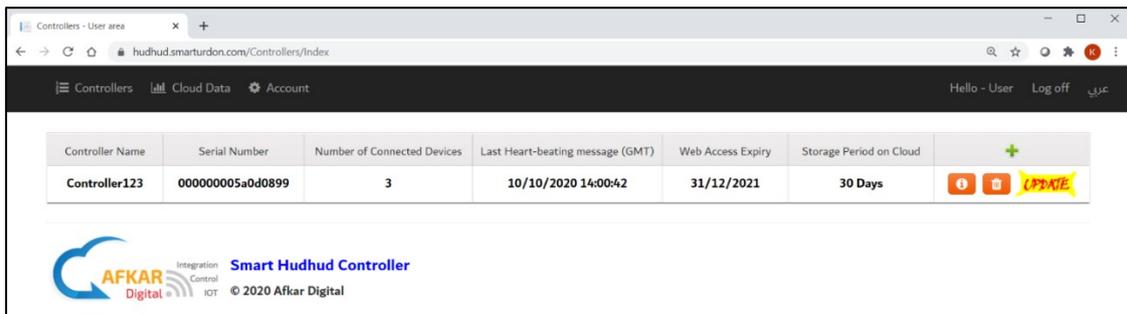


21. If the Serial No. you filled is correct, the pictures of **MURAQEB** (Logger Unit and Sensors) will be displayed along with other information.

22. Click on **"Add"** to add this **MURAQEB** to your account and then click on **"Back"**



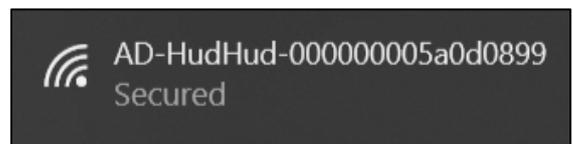
23. You can now see your **MURAQEB** device listed in your Cloud Account.



### 2.3. Accessing & Activating **MURAQEB Advanced**

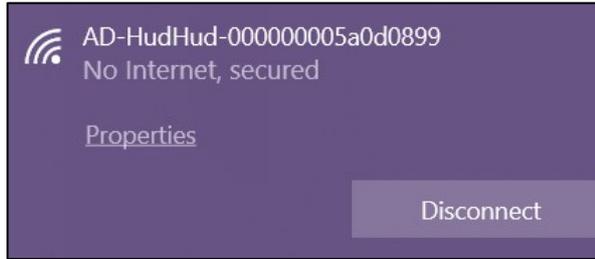
24. Ensure that the Logger Unit is connected to the AC adapter.

25. Check available WIFI networks from your PC or mobile. You should see the WIFI of **MURAQEB** like the example aside. The WIFI of **MURAQEB** will show up after ~one minute from powering the Logger Unit and it will include the serial No. of your **MURAQEB** at the end of the name.



26. Select the WIFI of **MURAQEB**, then fill in password **12345678**

27. To ensure you camped on the WIFI of **MURAQEB**, the network view should be like below.



Computer (PC)

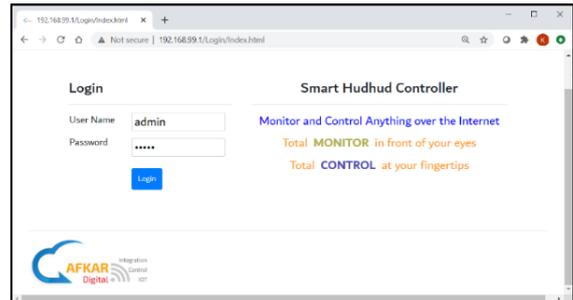


Mobile

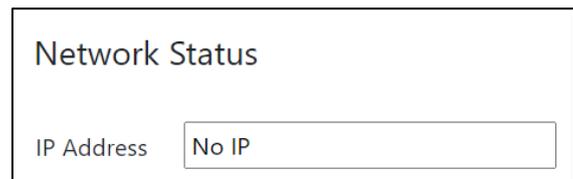
28. In your web browser, type <http://192.168.99.1> to access MURAQEB thru the local network. Login as:

Username: **admin**

Password: **admin** (Later you can change the password)



29. Your browser will direct you to the WIFI Setup page where you need to define the local WIFI network inside **MURAQEB**. Initially, under **WIFI Network Status** there will be no defined WIFI, and the **WIFI IP address** of **MURAQEB** will be showing **No IP**.

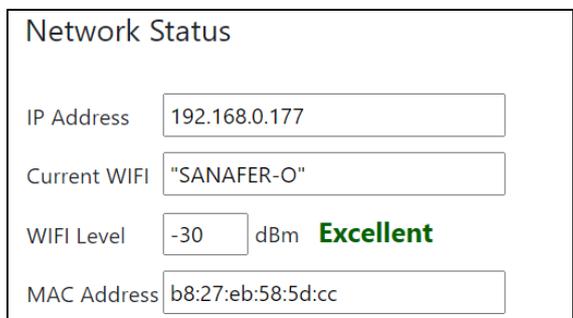


30. Under **WIFI Selection**

- Select **WIFI Name**, fill in **Password**, and click on **Save**.
- If WIFI password you filled is correct, **“Saved Successfully”** will be prompted.



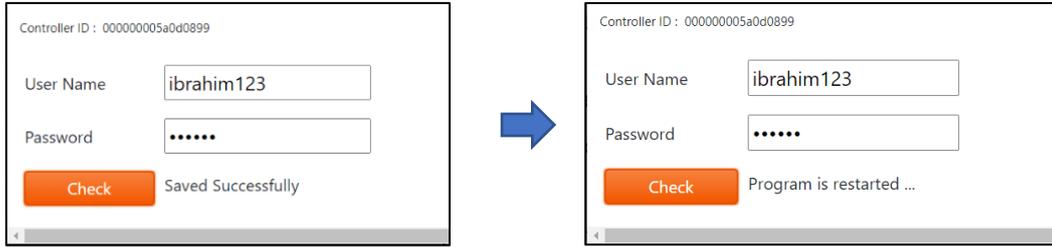
31. Refresh your browser page. Under **WIFI Network Status** you will see a valid IP address and the name of the WIFI you selected.



32. Go to **Settings >> Cloud Account**. Fill in same Username and Password when you created your account (as in step 12). Click then on **“Check”**



33. If account information you filled is correct, **MURAQEB** will prompt a successful message and will restart.



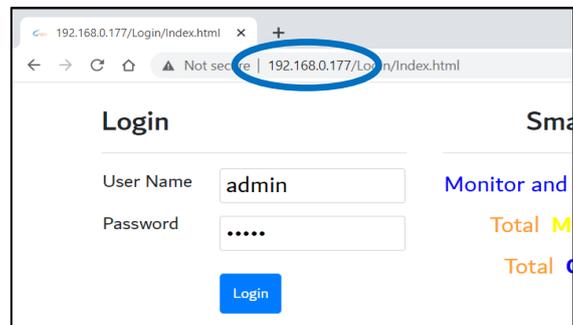
**2.4. Monitoring MURAQEB Advanced from Local Network**

34. Reconnect your PC/mobile back to your local WIFI network (same one defined for **MURAQEB**)

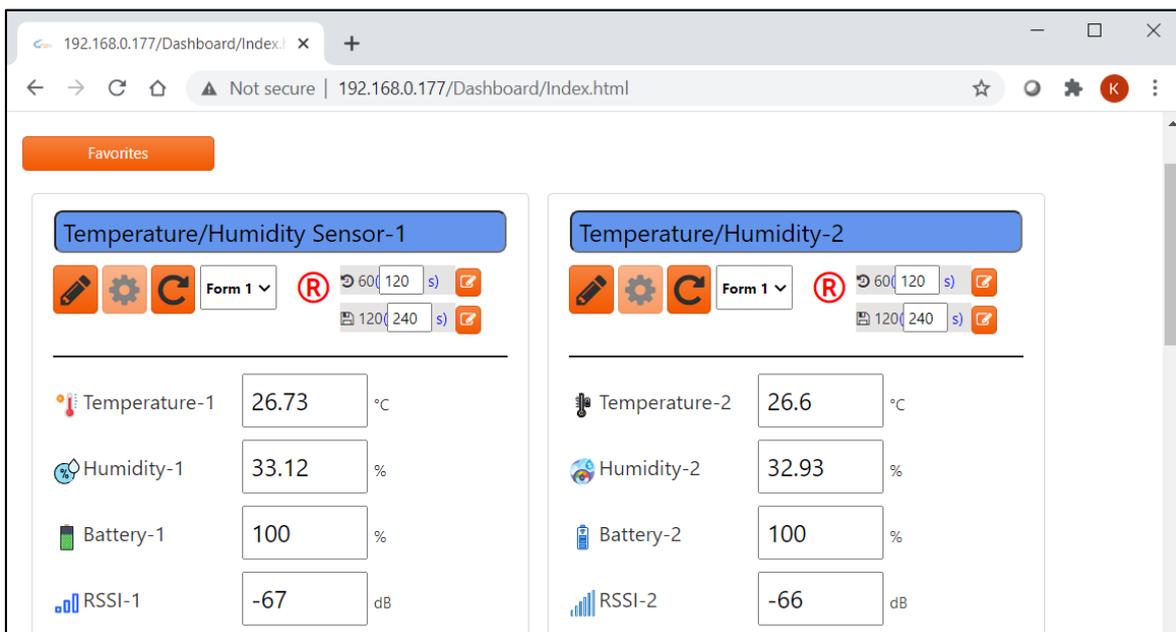
35. By this time, **MURAQEB** should have finished restarting.

36. In your web browser, fill in the IP address of **MURAQEB** (found in step 31). Login as before:

- Username: **admin**
- Password: **admin**



37. You will be able to see all the Temperature Sensors connected to **MURAQEB** from the local WIFI.





## 2.5. Monitoring MURAQEB Advanced thru the Internet

38. In your browser, type <https://hudhud.smarturdon.com> to access your account.

39. Login and select the User ID/Name from the drop menu.

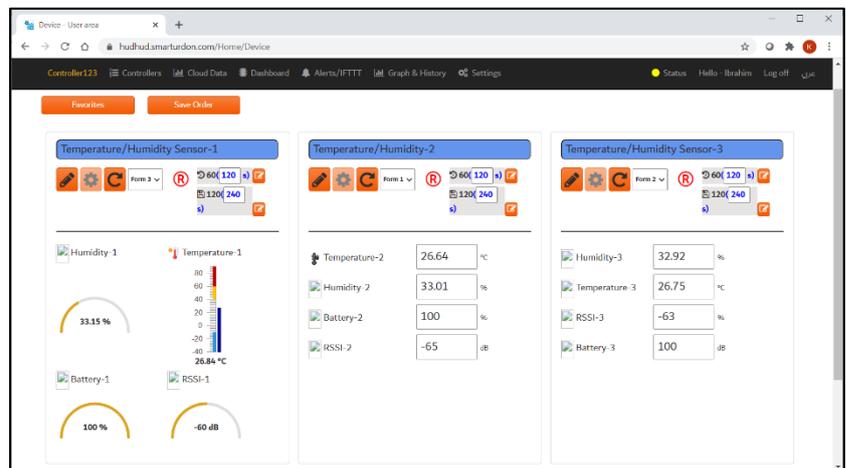


40. Select which MURAQEB you want to monitor from the list.

Controller Name	Serial Number	Number of Connected Devices	Web Access Expiry	Storage Period on Cloud	
Controller123	00000005a0d0899	3	31/12/2021	30 Days	

41. You should be able now to monitor MURAQEB you selected thru the Internet.

42. To add another MURAQEB to your account, you need to repeat Parts (2.2 and 2.3) only.



## 3. Shutting Down MURAQEB Advanced & Turning OFF Wireless Sensors

If you do not want to use MURAQEB for some period or need to move MURAQEB from one place to another. You need to do below 2 steps:

### 3.1. Shutting down MURAQEB Advanced Safely

1. Login to MURAQEB, either from local network or remotely.
2. Go to **Settings >> Controller**. Scroll down to **Controller Management**.
3. Click on **“Shut down the Device”**.
4. Wait for ~one minute then disconnect the electrical adapter from the Logger Unit and then unplug the adapter from the AC source.





### 3.2. Turning OFF Wireless Senores to extend Battery Lifetime

1. Notice the small push button at the back of the sensor.
2. Press gently on the push button for (~4 seconds) until you see a blue light flashing at the front of the sensor. The blue light will flash for ~3sec and then disappears. The sensor now is turned OFF.
3. Repeat the same steps for all wireless sensors you want to turn off.



## 4. Operating MURAQEB Advanced

You can learn more about Operating MURAQEB and its Features by viewing the Tutorial Videos form our website:

<http://www.afkardigital.com> >> Products >> Mini Products



- ✚ Creating Cloud Account
- ✚ Configuring MURAQEB
- ✚ Displaying Graphs / Tables
- ✚ Setting Alerts (IFTTT) for Email/SMS/Phone Calls
- ✚ Filling Usernames inside MURAQEB
- ✚ Checking your account balance
- ✚ Selecting Forms
- ✚ Making Favorites Menus
- ✚ Setting Refresh Timer/Storage Timer
- ✚ Setting Storage Period
- ✚ Upgrading MURAQEB Software
- ✚ Backing up/Restoring MURAQEB configuration to/from cloud
- ✚ Restarting, Rebooting, and Shutting down MURAQEB
- ✚ Other Settings, and more...



Contact us for any queries or information related to MURAQEB

Replacing Sensor Battery

Ordering more Sensors

Technical Issues

Any Further Queries & Information