

MONITORING SERVICE MANUAL Year: 2018

Manufacturer: Preservatech Europe sp z o.o. Równa 1, 85-846 Bydgoszcz, Poland info@preservatech.eu



Contents

OVERVIEW	. 3
WIFI ANTENNA INSTALLATION	. 3
SETTING UP USER ACCOUNT	. 3
CONNECTING DEVICE TO WIFI	. 4
USING RHMONITORING SERVICE	. 5
Loging	. 5
Dashboard	. 5
Chart Page	. 6
Device Settings	. 7
Hubs & Devices	. 8



Overview

All of Preservatech's equipment is ready to use with our monitoring service <u>https://rhmonitoring.com</u>.

Our devices can be connected to the local WiFi network and further to our internet server. Data for each machine can be checked on any WWW able device: PC computer, IPad or smartphone.

Our equipment is equipped with a built-in data logger. In case of temporary loosing the WiFi connection, data will be sent to the server after connection is restored.

With the monitoring service the user can check the actual status of the machine, Humidity, Temperature, air quality and quantity of water in the machine. Additionally, all data recorded may be displayed in a graph to track any changes. If the equipment's parameters are Out of Range or there is Low Water, the user may set the monitoring service to inform them by email.



In order to see the demo machines connected to our server go to <u>https://rhmonitoring.com</u> and use user name: "demo" and password "demo11".

WiFi Antenna installation.



If the machine is located inside a metal enclosure (eg. Under the showcase in a steel enclosure) it is highly possible that the WiFi connection will be poor or non-existent. In this

situation, the antenna needs to be installed outside of the metal enclosure. A Wifi antenna extension cord can be supplied by Preservatech. (Antenna is included in a standard order; extension cord is an additional option)



Setting up user account.

- 1. Setup machine WiFi connection. See "Connecting device to WiFi" below.
- 2. During setting up machine, make a note of hub number.
- 3. Send email to info@preservatech.com with:
 - a. Hub number/s
 - b. User name (temporary password will be issued)
 - c. Email where alarm messages will be sent.
- 4. Account will be setup within 24 hours.
- 5. After first login, password can be changed.



Connecting Device to WiFi

To use the rhmonitoring.com service the machine must be setup to work with the local Wi-Fi network.

Two parameters must be known before setting up: Wi-Fi SSID (name of local WIFI network) and access password for this network. Setting can be done with any Wi-Fi enabled device.

Wifi config mode	1. To enter Wi-Fi configuration mode, press the setting
	button on the main page.
Back	2 Using slider find "Wifi config mode"
Hub_11291479	and push configuration button located Wifi config mode 0
Wifi SSID: "PRESERVATECH _EUROPE" Wifi Pace: "12345678"	and push configuration button located —
Server 1 IP: 0.0.0.0	on the right.
Server 2 Name: "pws.iq.direct" Server 3 Name: ""	3. After entering this mode, display shows among others Hub id.
	WiFi SSID (network name) and WiFi Pass. For proper operation
	SSID and Pass must be set to access local WiFi network.
	4. Using your smartphone choose
	connection with Hubxxxxx . (Machine
	must be in Wifi config mode)
	→ hub1 Source Recommendation 중 ①
	5. Within a few seconds after login a new
	page with the machine data will pop
	up.
	••••• 5-600 kgi DE 122 PM • 1 454 🗰 >
	nazi nazi nazi nazi nazi nazi nazi nazi
	PRESERVATECH
	Enable WiFi SSID
	lab206
	testmode206 6. Enter proper SSID (Name of local WiFi
	Enable Ethernet network) and a password.
	Server #1 - Local:
	Autoriatant Local Saruar
	7. Save data by pressing "Save to
	Hub" button.
	8 Display should show actual parameters with the new data
	9 Shut down the machine and after 30 sec, turn it on again
	10 On main display in the right ton corner "iwc" will appear this
	means the machine is properly set
	11 Assuming rhmonitoring com account is ordered and setup
	machine will be visible in the monitoring service



Using RHmonitoring service

Loging

On the login page (<u>https://rhmonitoring.com</u>) enter user name and password and click "Login". On this page language also can be chosen.

Dashboard

🖻 🔁 🗖 Dashboard	× + ~								-		×
\leftarrow \rightarrow \circlearrowright \textcircled{a}	https://rhmonitoring.co	om/en					□ ☆		l~	Ŕ	
					Dashboard	Hubs & Devices	Language 🗤	Logged i	n as demo	🕩 Lo	og out
Dashboard	Dashboard										
demosite											- 1
🛔 Hubs & Devices	Device Name	Device Model		RH, %	T, ℃	Water level	📥 Charts		Settings	•	
	Air Quality	RHT Sensor		30.6 0.0	33.2 ^{40.6} 33.2	N/A	Charts		Settings		
	Demo Unit 1	Mini One		40.2 ^{53.1} 35.4	30.6 0.0	Low	Charts		Settings		
	Demo Unit 2	Mini One		35.0 ^{30.0} 32.3	30.5 0.0	Middle	Charts		Settings		
	Demo Unit 3	PMCG		19.9 ^{20.5}	31.2 ^{45.2} 22.7	N/A	Charts		Settings		
	Maxi - test	Maxi One		30.0 0.0	29.0 29.2 0.0	Full	Charts		Settings		
			5								

On the Dashboard, all devices are shown in the form of table.

- 1st column: Showing name of the device. This can be changed by user.
- **2nd column**: Device Model (type). This cannot be changed.
- **3**rd **column**: RH,% displays the current RH value. (The small numbers on the right show the minimum and maximum values recorded)
- **4**th **column**: T, °C displays the current T value. (The small numbers on the right shows max and minimum values recorded)
- **5th column**: Water level displays the current water level in the machine. (Works only with Mini One and Maxi One machines)
- **6th column**: Charts. By clicking this button Chart page will open.
- **7**th column: Settings certain parameters including name of device can be set.

Menus

- Hubs & Devices: Page where some parameters including name of device can be changed.
- **Language**: Choice of language. English, Chinese and Russian. Other languages may be added in the future.
- Logged in as ... : Changing password.
- Log out



Chart Page



As a default, the chart is shows the last 24 hour readings of RH (blue), T(red) and SET RH (green).

Time span can be changed by setting "From Date/Time" and "To Date/Time" and clicking on "Show Chart".



If a more accurate reading is needed, the bottom yellow banner can be changed to see data within few hours. Just move the edge of the yellow banner to see desired time span.

When Mini One, PMCG and Maxi One is monitored only RH and T is shown on chart, for air quality sensors in addition levels of CO2, TVOC, dust particles <10 μ m and <2.5 μ m are also shown.



Device Settings

Device settings are accessible from the Dashboard by clicking "Settings" for any particular device.

🖻 🔁 🗖 Device Settings for Dev	π X + ∨	_		×
\leftarrow \rightarrow \circlearrowright \land	https:// rhmonitoring.com /en/Home/DeviceSettings?HubId=6699005&DeviceAddress=1	h	Ŀ	
	Dashboard Hubs & Devices Language Logged in	as demo	🕩 Log o	out
🕸 Dashboard	Device Settings for Dem& Unit 1			
demosite				
🛔 Hubs & Devices	< Readings Chart Device Settings Hub Settings Related Devices -			
	Device Name			
	Demo Unit 1			
	Device Type			
	Mini One		~	
	This device is sensing parameter (if in pair)			
	Humidity+Temperature (single)		~	
	Humidity preset			
	40.0			
	Humidity error offset			
	10.0			
	Password #2			
	Save to device			
				\sim

- 1. Device Name: Name of the particular device connected. This name will be used by the monitoring site and will be visible on the dashboard.
- 2. Device type: this should not be changed.
- 3. This device is sensing parameter: this should not be changed.
- 4. Humidity preset. Target RH. Value set by user.
- 5. Humidity error offset: value of alarm offset when machine is out or range. More information in our machines manuals.
- 6. Save to device: saves settings.



Hubs & Devices

🖻 🖅 🗄 Hubs & Devices	× +	 ✓ ↓ 					-		×
\leftarrow \rightarrow \circlearrowright \textcircled{a}	https:// rhmo	nitoring.com/en/Hubs	sDevs		□ ☆	Zv≓	l~	Ŀ	
				Dashboard Hubs & Devic	ces Language	Logged in a	s demo	🕩 Log	g out
🕸 Dashboard	Hubs 8	Devices							
demosite	11005 0	C D C VIOCO							- 1
🛔 Hubs & Devices	Register new	/ Hub manually	Register new Device manually						
	Hub Id	Hub Name	Company Name	Installation Name	Devices				
	1283365	Demo Unit 2	demosite	demosite	1 View	Hub Settings	Delete		
	2883635	Maxi- Preservatech Lab	demosite	demosite	1 View	Hub Settings	Delete		
	3387197	Air Quality	demosite	demosite	1 View	Hub Settings	Delete		
	6699005	Demo Unit 1	demosite	demosite	1 <u>View</u>	Hub Settings	Delete		
	Device Add	ress	Device Name						
	1 Readings		Demo Unit 1	Charts Device Setting	s Delete				
	6699381	Test Unit 3	demosite	demosite	1 View	Hub Settings	Delete		
									~

Hubs are WiFi devices installed inside the machines which allow the devices to connect to a network. Under normal circumstances there is no need to change any of the hub parameters. Hubs are not visible on the dashboard.