

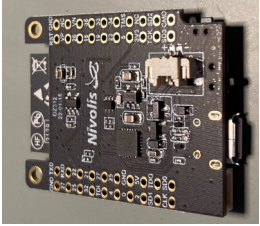

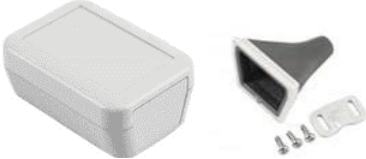
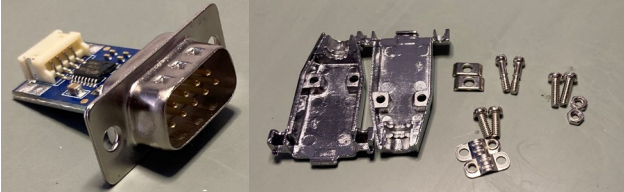

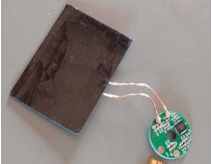




1. AUDIT TRAIL




Version	Change Description	Change Date
01	Initial Version	2025/01/05

2. SIGNATURES

Role	Name	Title	Date	Signature
Author	Gerard Evers	CEO	20250105	

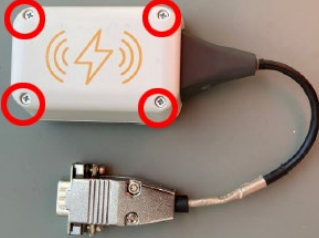



3. WORK INSTRUCTIONS TO ASSEMBLE NIVOLIS

 (µController) card DZ312	 Jauch LP103450JH	 Hammond 1552D1GY 1552D CABLE GLAND KIT
 RS232 AK-RS232-M	 Cable UART	
 Wireless charging coil	 MicroUSB Left Angle To OPEN L=70MM(24 2C)	 Light guides (Farnell PLP2-125 & PLP2-500)
 Plastic clamp 98 mm x 2,5 mm	 2 screws 1.8x4.5 - T6	

Plug DB9 cable with RS232 TTL and Pass DB9 bacle in the yarn guide	
Solver a GND cable between RS232 Socket and RS232TTL	
Assembly RS232 Socket	

<p>Assembly cable gland Place Plastic Clamp on DB9 cable to stop cable gland</p>		
<p>μUSB cable remove the two inner plugs (D+ and D-) with scissors</p>		
<p>μUSB and Charging Coil Solder GND and VDD plugs to charging coil</p>		
<p>Open enclosure Assembly PLP2 500 Light guide on enclosure Make sure the light guide is pushed in</p>		
<p>Screw microcontroller card on the base of the enclosure with two screws. Fix the wireless charging coil with glue to the enclosure lower side and connect the μUSB to μcontroller card. Fix battery with double-sided adhesive to the wireless charging coil. Connect battery to μController</p>		
<p>Install the firmware</p>	<p>Follow instructions of paragraph 4 from step 7</p>	
<p>Close the enclosure parts</p> 		<p>Print the label and paste it with the right serial number and report all the serial number in QMS/DOC-78 Assembly PLP2 125 Light guide on enclosure Make sure the light guide is pushed in</p>




4. WORK INSTRUCTIONS TO UPDATE NIVOLIS ANTON FIRMWARE

	Remove Nivolis-Anton from the Sentec / Radiometer monitor	Retirer tous les câbles entre Nivolis-Anton et les moniteurs Sentec ou Radiometer
	Remove Nivolis-Anton from the wireless charging platform	Retirer Nivolis-Anton de la plateforme de charge
	Switch on the Nivolis-Box Wifi Router	Allumez le routeur Wifi-4G NivolisBox
	Open Nivolis-Anton by unscrewing the 4 screws at the bottom	Ouvrir Nivolis-Anton en dévissant les 4 vis sous le dispositif
	Remove the cover	Retirer le couvercle
	Locate and remove the Micro-USB flat ribbon cable going from below the battery to the electronic board	Situer et retirer le câble plat Micro-USB partant de sous la batterie à la carte électronique
	Connect a microUSB cable to this connector on the electronic board and on a free USB connector on your computer	Brancher Anton sur le PC par le câble USB micro USB connecté à la carte électronique
	Ensure you do not have any other device connected to your PC that might create a serial communication port	Assurez-vous d'avoir aucun autre équipement susceptible de créer un port de communication série branché sur votre ordinateur
	Open the folder Anton_FW_Last and double click to execute the script 20240731__Anton.bat. Verify the progress of the update	Ouvrir le dossier Anton_FW_Last puis double cliquer pour exécuter 20240731__Anton.bat. Vérifier la progression de la mise à jour

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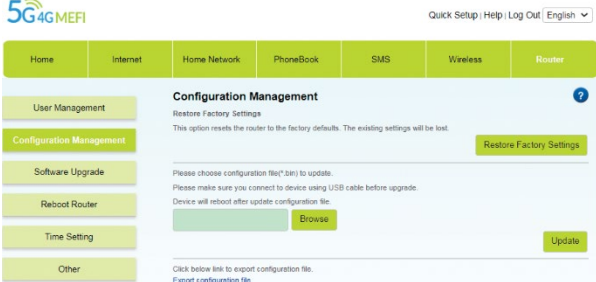
C:\Windows\system32\cmd.exe
esptool write_flash: error: argument <address> <filename>: [Errno 2] No such file or directory: 'NivolisAnton_2022.bi
C:\_DocWork\2021_VIVA\_Firmware\_Anton>20240731_Anton.bat
C:\_DocWork\2021_VIVA\_Firmware\_Anton>esptool.exe --chip esp32 -b 460800 --before=default_reset --after=hard_rese
rite_flash --flash_mode dio --flash_freq 40m --flash_size 16MB 0x1000 bootloader.bin 0x10000 NivolisAnton_2024.bi
8000 partition-table.bin
esptool.py v3.3
Found 1 serial ports
Serial port COM14
Connecting...
Chip is ESP32-D0WD-V3 (revision 3)
Features: WiFi, BT, Dual Core, 240MHz, VRef calibration in efuse, Coding Scheme None
Crystal is 40MHz
MAC: 8c:4b:14:36:50:c0
Uploading stub...
Running stub...
Stub running...
Changing baud rate to 460800
Changed.
Configuring flash size...
Flash will be erased from 0x00001000 to 0x00006fff...
Flash will be erased from 0x00010000 to 0x0011ffff...
Flash will be erased from 0x00080000 to 0x0008ffff...
Compressed 22480 bytes to 14597...
Wrote 22480 bytes (14597 compressed) at 0x00001000 in 0.8 seconds (effective 227.2 kbit/s)...
Hash of data verified.
Compressed 1110752 bytes to 758062...
Wrote 1110752 bytes (758062 compressed) at 0x00010000 in 17.6 seconds (effective 503.9 kbit/s)...
Hash of data verified.
Compressed 3072 bytes to 174...
Wrote 3072 bytes (174 compressed) at 0x00080000 in 0.1 seconds (effective 320.9 kbit/s)...
Hash of data verified.
Leaving...
Hard resetting via RTS pin...
C:\_DocWork\2021_VIVA\_Firmware\_Anton>


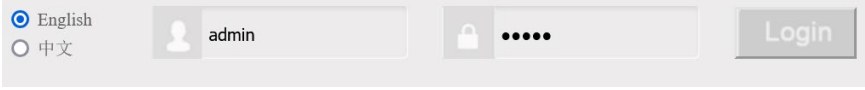
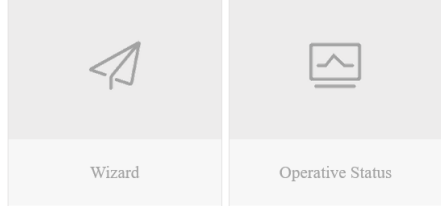
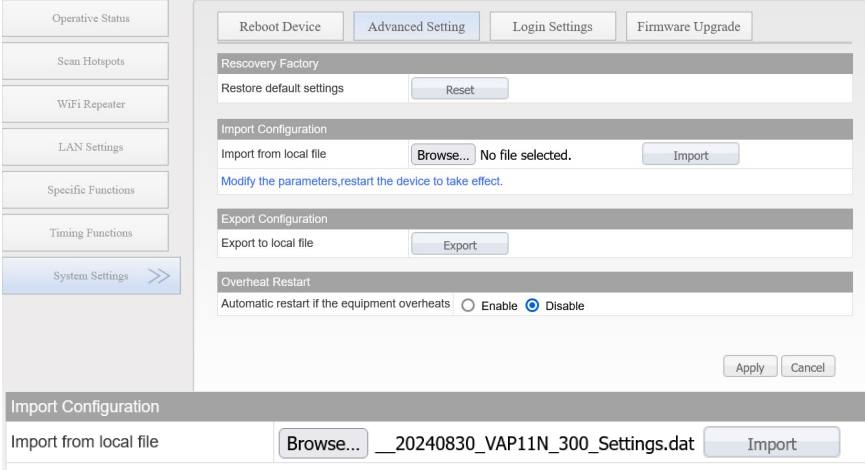
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	<p>Upon success, remove the cable between the electronic board and the PC. Then reconnect the flat microUSB cable from below the battery to the micro USB connector on the electronic board</p>	<p>Si la mise à jour est réussie, débrancher le câble micro-USB entre la carte électronique et le PC. Puis reconnecter le câble plat microUSB partant de sous la batterie au connecteur micro-USB sur la carte électronique.</p>
	<p>Ensure that the white connector is still in place as indicated</p>	<p>Assurez-vous que le connecteur blanc est toujours bien en place</p>
	<p>Close Nivolis-Anton by paying attention to the cable location when closing</p>	<p>Fermer le boîtier en faisant attention aux câbles</p>


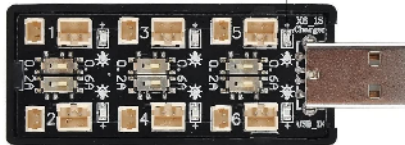
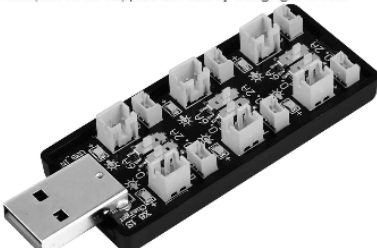
	Verify on the sever that the device did communicate	Vérifier sur le serveur que le dispositif a bien communiqué


5. WORK INSTRUCTIONS TO CONFIGURE WIFI ROUTERS

	<p>Remove the SIM Card Connect the XM42 to a PC using a USB cable</p>	
<p>Connect to the portal at 192.168.0.1 and enter the username/password (admin/admin)</p>		
<p>Go to the Router Menu</p>		
<p>Go to Configuration Management option and load the file 20240830_Sailsky_Mifi_config.bin then click Update</p>		
<p>Wait for the restart</p>	<p>Switch off the router</p>	<p>Insert the SIM Card</p>
<p>Verify that the WIFI "NIVOLIS1" is active</p>	<p>Verify that the LED lights blue after 1 minute</p>	

	<p>Connect the Vonets to a PC using the USB cable and the RJ45</p>	
<p>Connect to the portal at http://vonets.cfg/ and enter the username/password (admin/admin)</p>		
<p>Go Operative Status Menu</p>		
<p>Go to System Settings then Advanced Settings and load the file _20240830_VAP11N_300_Settings.dat then click Import</p>		
<p>Wait for the restart</p>	<p>Verify that the WIFI "NIVOLISTCM" is active</p>	

6. WORK INSTRUCTIONS FOR BATTERIES

<p>Charge batteries using an external USB adapter</p>	<p>LED Indicator Green flash: Charger power on Green solid: Battery charging Green turn flash: Full charged</p>   <p>Port No.1- No.6 Each port ONLY support one battery charging at a time</p> 	<p>Les 6 voyants LED indiquent : la LED solide indique la charge, la LED éteinte indique une charge complète.</p>
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	Nivolis-ANTON Support-Repair Instructions	
	VIVARDIS: QMS - template (QMS)	Date: 20250106 10:33
	Document: DOC-PROC13 - Work Instructions	Page: 7 / 7