Manuals+ — User Manuals Simplified.

MWLI-MB Modbus RTU Base Station for Capetti Wireless Data Logger User Guide

MWLI-MB Modbus RTU Base Station for Capetti Wireless Data Logger

Product Information

The MWLI-MB is a wireless sensor network system designed for monitoring and managing temperature using the WineCapKey and temperature probe (WSD00T). It includes components such as the WSN antenna (ANT-EXT), LED indicators, power supply, USB cable, and the WineCapManager software. The system allows for easy installation and integration into your monitoring setup.

Product Usage Instructions

1. Technical Assistance: For any technical assistance, you can contact the support team via email at
   ufficiotecnico@capetti.it or by phone at +39 01198198238 or mobile at +39 3331985070.
2. WineCap Manager Setup:
   1. Launch the Setup.exe file located in the WineCapManager folder and follow the installation instructions.
   2. Run WineCapManager and select "Local Connection".
   3. Wait for the MWDG-MB recognition.
   4. Create a new database by inserting a database name and clicking "Open".
   5. Insert the license file from the CD by going to the "Basestation" menu and selecting "Insert license".
   6. Wait for automatic synchronization of the sensor list and status from baseline to PC.
3. USB Driver Installation:
   1. Connect the MWLI-MB to your PC using the provided USB cable.
   2. Access Control Panel > Device Manager and click on the MWDG-MB device.
   3. Install the USB driver manually by locating the MWDG_CDC.inf file on the CD.
   4. Click "Continue" when prompted.

5. Note: For Windows 8.1, refer to the manual "Win8.x Installare Drivers USB R01.pdf" on the CD in case of malfunctions.

6. After the installation process, a new COM port named "WineCap MWDG (CDC)" will be installed.

4. System Setup:

1. Connect the MWLI-MB as shown in the diagram.

2. Power on the MWLI-MB and verify that the System LED is flashing green.

3. Activate the probe by approaching the WineCapKey and waiting for 2 flashes as a test.

4. Remove the WineCapKey after activation.

5. Verify the LED flashes to ensure proper functionality.

   Different flash patterns indicate different radio signal qualities.

5. Installation Guidelines:

1. Position the MWLI-MB at the intended location and power it on. Choose a central position if possible, avoiding metal obstructions and reinforced concrete structures.

2. Verify the GSM signal and ensure that the distance between the WSN and GSM antennas is greater than 50cm.

3. Move the probe to the selected location, ensuring good radio signal quality. Outdoor probes should be placed upward and north-oriented to avoid tampering.

4. If needed, add routers to extend the radio signal. Couple a router to the system, position it upward among obstacles and people, and select a strategic point among the plant.

5. You can use the WD04T tester probe to measure the radio signal level. Couple the probe to the system, activate the test, and declare the radio reference in a specific point (router address or zero for MWDG-MB).

6. For more detailed instructions regarding the network and installation process, refer to the "WINECAP User Manual.pdf" located on the CD.

System Components

Terminal Block

J1	Vin
1	P.E.
2	GND
3	12/24 Vdc

J6	Modbus
1	N.C.
2	MB A+
3	MB B-
4	GND

Led Description

LED	
System	System indicator: slow flash=ok rapid flash=probe enrolling
Logger	Not used
CCS	Not used
COM	Not used
WSN	Wireless Sensor Network Green=receiving measures Red= ongoing transmission

WineCap Manager

1. Launch Setup.exe in the folder WineCapManager and run the installation.
2. Run WineCapManager and select "Local Connection".
3. Wait for the MWDG-MB recognition
4. Create a new database, insert a database name, and press "open".
5. Insert the license file available on CD, menu Basestation Insert license

Wait for the automatic synchronization of the sensor list and status from baseline to PC.

USB Driver

1. Connect to the PC using a USB cable.
2. Access to Control Panel Device Manager and click on MWDG-MB device.
3. Install USB driver manually located on CD. File "MWDG_CDC.inf"
4. Click on "continue" when requested
5. Note for WIN8.1: in case of malfunctions look at the manual "Win8.x Installare Drivers USB R01.pdf" located on CD.
6. At the end of the installation process, a new COM por twill be installed: "WineCap MWDG (CDC)"

Start Sensors

1. Connect the MWDG-MB as shown
2. Power on the MWDG-MB and verify the "System"Led: green flashing
3. Activate the probe
   - a. Approach the WineCapKey
   - b. Wait for 2 flashes (test)
4. Remove the Key
5. Verify the LED:

How To Install

guidelines to follow during the system installation process

1. Position at the intended location and power on the MWDG-MB

    a. If possible, choose a central position among to the wireless plant

    b. Avoid metal obstructions and reinforced concrete structures

    c. Verify the GSM signal WSN and GSM antennas distance must be >50cm

2. Move the probe in the selected location

    a. verify the quality of the radio signal: important: small movements can help

    b. outdoor probes must be placed upward and north-oriented to avoid tampering

3. Adding routers to extend the radio signal

    a. Couple a router to the system and write down the assigned address

    b. Position the router upward among obstacles and people

    c. Select a "strategic" point among the plant

4. Using the WD04T tester probe

    a. Couple the probe to the system

    b. Activated the test, the probe displays the percentage of the radio signal level

    c. Declares the radio reference in a specific point: router address or zero for MWDG-MB

5. Manual: Refer to "WINECAP User Manual.pdf" located on CD for further instructions regarding the network and the installation process.

Technical Assistance

Email **ufficiotecnico@capetti.it**
Phone +39 01198198238
Mobile +39 3331985070

Documents / Resources

MWLI-MB QUICK GUIDE	**Capetti MWLI-MB Modbus RTU Base Station for Capetti Wireless Data Logger** [pdf] User Guide MWLI-MB Modbus RTU Base Station for Capetti Wireless Data Logger, MWLI-MB, Modbus RTU Base Station for Capetti Wireless Data Logger, Capetti Wireless Data Logger, Wireless Data Logger, Data Logger

References

- ⌁ **Capetti Elettronica s.r.l.**