

## Technical Assistance:

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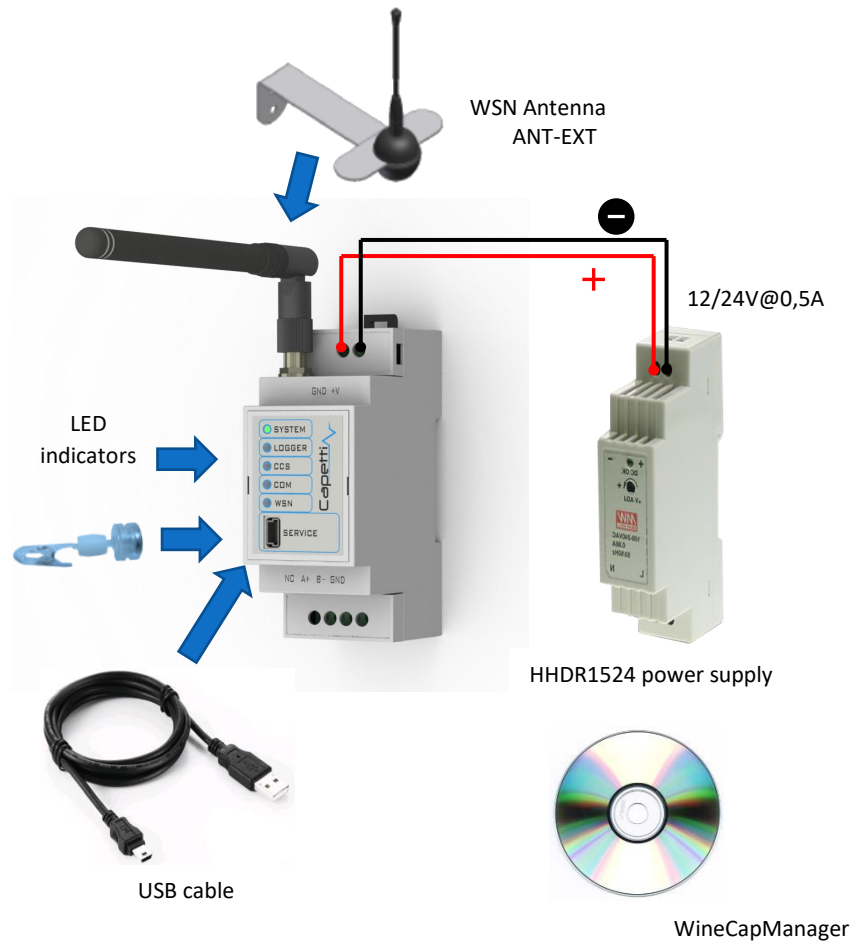
*Telegram*

# Quick Guide MWDG-MB



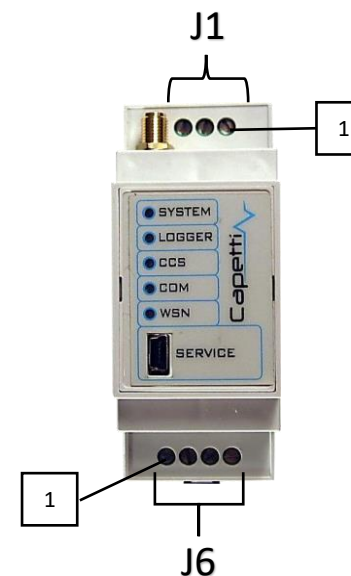
## System Components

## Notes



## Notes

## Terminal Blocks



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

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

## Led Description

|        |   |
|--------|---|
| System | System indicator: <ul style="list-style-type: none"> <li>slow flash = OK</li> <li>rapid flash = probe/datalogger enrolling</li> </ul>       |
| Logger | Memory status   |
| CCS    | Not used  |
| COM    | Not used  |
| WSN    | Wireless Sensor Network <ul style="list-style-type: none"> <li>green = measure reception</li> <li>red = transmission in progress</li> </ul> |

## WineCapManager

1. Launch *Setup.exe* from the **WineCapManager** folder and run the installation.
2. Launch **WineCapManager** and select “*Local Connection*”.
3. Wait for MWDG device detection.
4. Create a new database, insert a referring name, and click on “*open*”.
5. Insert licence file located in the CD (*menu Basestation/Insert licence*)
6. Wait for the automatic alignment of the list and the status of sensors from MWDG to PC.

## USB Driver

1. Connect USB cable to PC.
2. Access to *Control Panel/Device Manager* then click on MWDG device.
3. Manually install the USB driver (*MWDG\_CDC.inf*) available on CD.
4. Click “*continue*” when requested
5. **Note** for WINDOWS 8.1: in case of troubles follow the “*Win8.x Installare Drivers USB R01.pdf*” manual available on CD.

At the end of the installation process, a new COM port will be installed: “*WineCap MWDG (CDC)*”

## Start Sensors

1. Connect MWDG as shown before, power up and verify Led “*System*” flashing
2. Activate the probe/datalogger:
  - a. approach **WinecapKey**
  - b. wait for 2 flashes (*test*)
  - c. remove **WinecapKey**



3. Verify LED:

| Flash count - Wireless mode |                                     | Status/Radio signal quality          |
|-----------------------------|-------------------------------------|--------------------------------------|
|                             | 5 green flashes                     | Excellent                            |
|                             | 4 green flashes                     | Good                                 |
|                             | 3 green flashes                     | Fair                                 |
|                             | 2 amber flashes                     | Sufficient                           |
|                             | 1 red flash                         | Insufficient                         |
|                             | 1 red flash 2" long                 | OUT OF RANGE<br>Network searching    |
|                             | 2 red flashes 2" long               | STANDBY                              |
|                             | Short-long-short red flashes series | FACTORY RESET<br>Device not enrolled |

## How to Install

Guidelines to follow during the system installation process

1. Position to the selected location and power on the MWDG
  - a. select, if possible, a central position among to the wireless plant
  - b. avoid metal obstructions and reinforced concrete structures
2. Move the probe/datalogger to the measure location
  - a. verify received signal  
important: small movement can improve the radio signal quality
  - b. outdoor probes must be placed upward and north oriented to avoid tampering
3. Adding repeaters to improve radio coverage
  - a. couple a repeater to the systema and write down assigned address
  - b. position it 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

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