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# Quick Guide MWDG-GSM



*Whatsapp*



*Telegram*



# System Components

# Notes



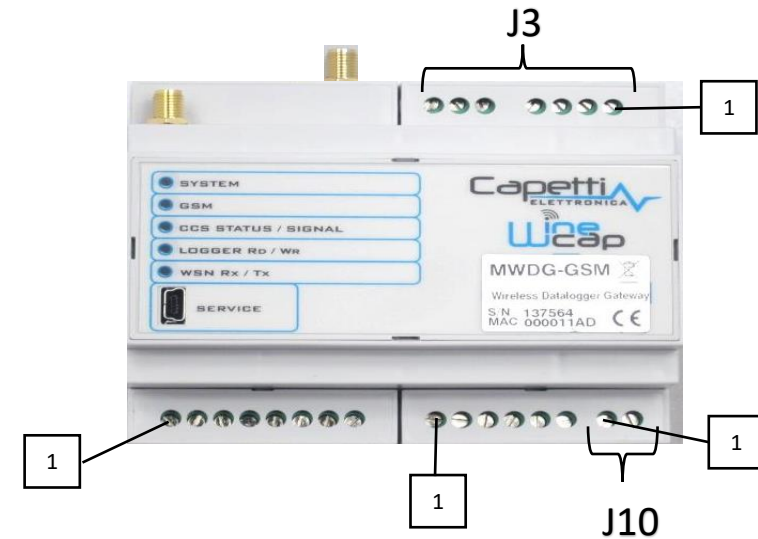
## Service Center Connection

1. Insert a working SIM and configure the provider APN and related PIN using **WineCapManager**.
2. GSM LED (*green*):
  - a. 1 flash/sec: network searching
  - b. 1 flash/4sec: signal ok
3. Connection test: issue to basestation command **4** using **WinecapKey**. CCS Status LED turns on (*green*), at the end of the upload process, LED turns off
4. To verify on Service Center website: [www.winecap.it](http://www.winecap.it) (valid account needed)

Approach **WinecapKey** in this point, wait for 4 amber flashes of the System LED then remove



## Terminal Blocks



J3	Vin + Serial
1	NC
2	MB A+
3	MB B-
4	GND
5	P.E.
6	GND
7	12/24Vdc

J10	Battery Backup
1	BATT_12V
2	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	Service Center connection: <ul style="list-style-type: none"> <li>• switched on (<i>green</i>) = connection in progress</li> <li>• switched on (<i>red</i>) = connection error</li> <li>• flashing = GSM signal test</li> </ul>
GSM	GSM communication: <ul style="list-style-type: none"> <li>• rapid flash (<i>green</i>) = looking for signal</li> <li>• flashing (<i>green - 1 flash/4sec</i>) = GSM network OK</li> <li>• flashing (<i>red/green</i>) = GSM error</li> </ul>
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**



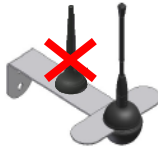
3. Verify LED:

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 Network searching
2 red flashes 2" long	STANDBY
Short-long-short red flashes series	FACTORY RESET 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
  - c. verify the GSM signal  
WSN and GSM antennas distance must be >50cm
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 system 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.**