

wM-Bus 868 USB Key



QUICK REFERENCE GUIDE

Translation of the original instructions.

Before installing and using the device, carefully read this manual and store it together with the product.

Symbols used in this manual and relative meaning



WARNING!

Indicates particularly important information.



DANGER!

Identifies actions that may lead to injury or damage to the device if not performed correctly.



PROHIBITED

Indicates actions that **MUST NOT** be performed.

Compliance

Maddalena S.p.A. states that the **wM-Bus 868 USB Key** complies with the essential requirements of the following directives and standards:

- Directive 2014/53/EU (RED - Radio Equipment Directive)
- Directive (EU) 2017/2102 (RoHS2)



The full declaration of EU compliance is available from the following website:
www.maddalena.it.

Warranty

Conditions of sale and warranty

The conditions of sale and warranty are available on the website **www.maddalena.it**.

Warranty limitations

Maddalena S.p.A. declines all responsibility, with immediate invalidation of the warranty in relation to:

- Damage or defects caused by transport or loading/unloading
- Incorrect installation caused by a failure to observe the instructions provided
- Use for purposes other than those indicated in this manual
- Use by unqualified or untrained personnel

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1 Introduction

1.1 Description

The **wM-Bus 868 USB Key** radio module is a radio transceiver in the ISM 868 MHz band designed to communicate with the **Maddalena wM-Bus** radio modules.

wM-Bus 868 USB Key is equipped with a USB-A type connector, used both as a power source and to send and receive data from a PC / Tablet.

The front-end radio has a built-in antenna, making **wM-Bus 868 USB Key** ideal for walk-by reading operations for submetering, where compactness and portability are key features.

The USB radio module sends and receives data via the USB port using a specific protocol and has been designed to be coupled with **Maddalena** reading and configuration software on both Windows and Android operating systems.

1.2 Label



1.3 Contents of the package

One **wM-Bus 868 USB Key** radio module is included in the package.

1.4 Technical specifications

Features		Description
Power supply		USB (5V)
Certifications/Approvals		CE in compliance with European standards.
Radio	Standard	Wireless M-Bus
	Modes	T1/S1/C1 T2/S2/C2
	Operating frequency range	868.0 - 868.6 / 868.7 - 869.2 MHz
	Radiated power	14dBm max
	Reference standards	EN 13757
	Radio equipment class	Class 1
USB		USB 2.0 type A
Environmental conditions		Storage temperature: -20°C – +60°C
		Operating temperature: -10 °C – +55 °C

2 First start-up



WARNING!

wM-Bus 868 USB Key should only be used by trained and instructed personnel.

To communicate with Windows PCs, it is necessary to install USB drivers, which can be downloaded from <https://www.ftdi-chip.com/Drivers/VCP.htm>.



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