UniCo

>> Universal Connecting Tool

The name UniCo brings together the terms **Uni**versal **Co**nnecting and is a multifunctional device with multiple functions. Compact, lightweight, characterized by maximum flexibility of use and good autonomy, it is designed for two main purposes: to receive T1 / C1 mode wM-Bus messages in the 868MHz ISM band and to interface to program Maddalena devices.

To connect to apps and reading and/or programming SW, UniCo can use either the USB-C port or alternatively the wireless mode via BlueTooth.

For module programming, UniCo is equipped with a wide set of interfaces ranging from the M-Bus port (master) with a capacity of 10 UL, to the NFC port, to the optical head support (Opto IR) to finish with the radio of edge in 868MHz ISM band.

This high availability of interfaces makes UniCo a universal device in the Maddalena portfolio and allows it to program using all the interfaces of the Maddalena communication modules.

UniCo is available in standard version with integrated antenna (P/N **1.ETRMD.1501**) but can also be requested in version with external RF SMA connector for vehicle applications. UniCo is compatible with current Maddalena reading and programming SW, but integration with third-party reading SW is possible (Protocol document available).

MAIN FEATURES

- Compact dimensions: 117.2x79x32 mm
- Power supply: rechargeable lithium polymer battery
- Antenna: integrated 868MHz RF (standard version) and optional with external antenna connector
- Autonomy: > 10 h
- Communication interfaces: USB-C, Bluetooth (BT), M-Bus (master) up to 10 devices, Optical head input (jack), NFC port, 868MHz ISM Radio in wM-Bus T1 / C1
- Recharge: via USB-C from PC or standard charger from smartphone
- FW upgradeable
- Equipped with a carrying cord

TECHNICAL SPECIFICATION

FEATURES	DESCRIPTION
Dimensions	117,2x79x32 mm
Weight	180 g
Supply	Internal rechargeable lithium ion battery
Autonomy	> 10 hours
Certifications / Approvals	RED 2014/53/EU, RoHS2 (EU) 2017/2102
Radio	
Operating frequency	868.0 - 868.6 / 868.7 - 869.2 MHz
Emission power	14 dB max
Reference standards	EN 13757
Interfaces	
M-Bus	Up to 10 UL
Optical Door Entrance	Jack of 3.5mm for optical interface P/N 1.ETRMD.1510
Environmental conditions	
Storage temperature	-20 °C ÷ +60 °C
Operating temperature	-10 °C ÷ +55 °C
Protection Index	IP44

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