



ECAN01

effortlessCAN adapter for
reading CAN data in
contactless mode

Quick Manual
v.1.0.1

Table of Contents

Table of Contents	2
Know your device	3
Pinout	4
Wiring scheme	5
Set up your device	6
Characteristics	7
Dimensions	7
Mounting recommendations	8
Safety information	9
Warranty	10
Warranty Disclaimer	10

Know your device

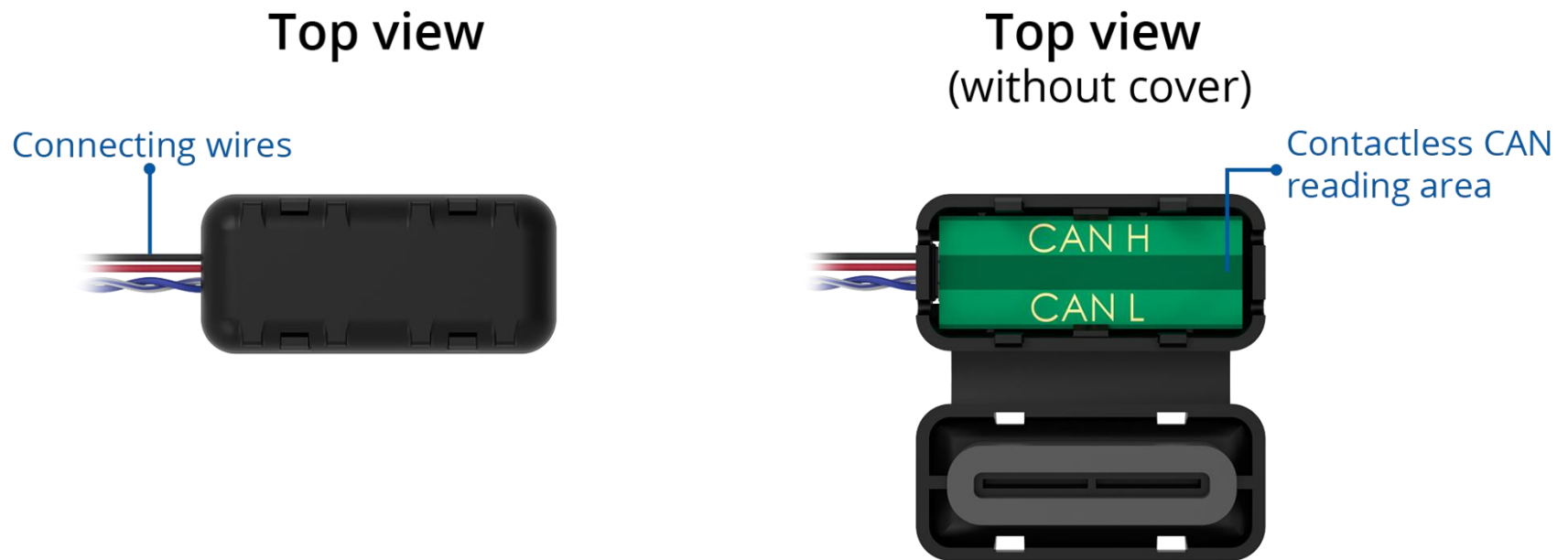


Figure 1 ECAN01 device view

Pinout

Table 1 ECAN01 4 pin socket pinout

Pin number	Pin name	Description
1	CAN L	(Blue) Connect to CAN L input of CAN BUS converter
2	CAN H	(White/Blue) Connect to CAN H input of CAN BUS converter
3	VCC	(Red) Power supply (+6-30 V DC)
4	GND (-)	(Black) Ground pin (10-30) V DC (-)

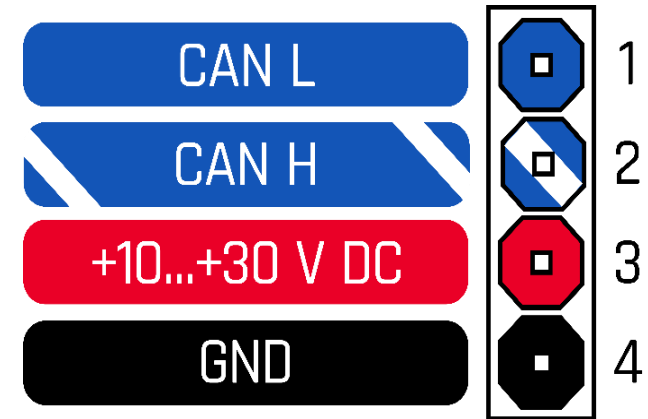


Figure 2 ECAN01 socket pinout

Wiring scheme

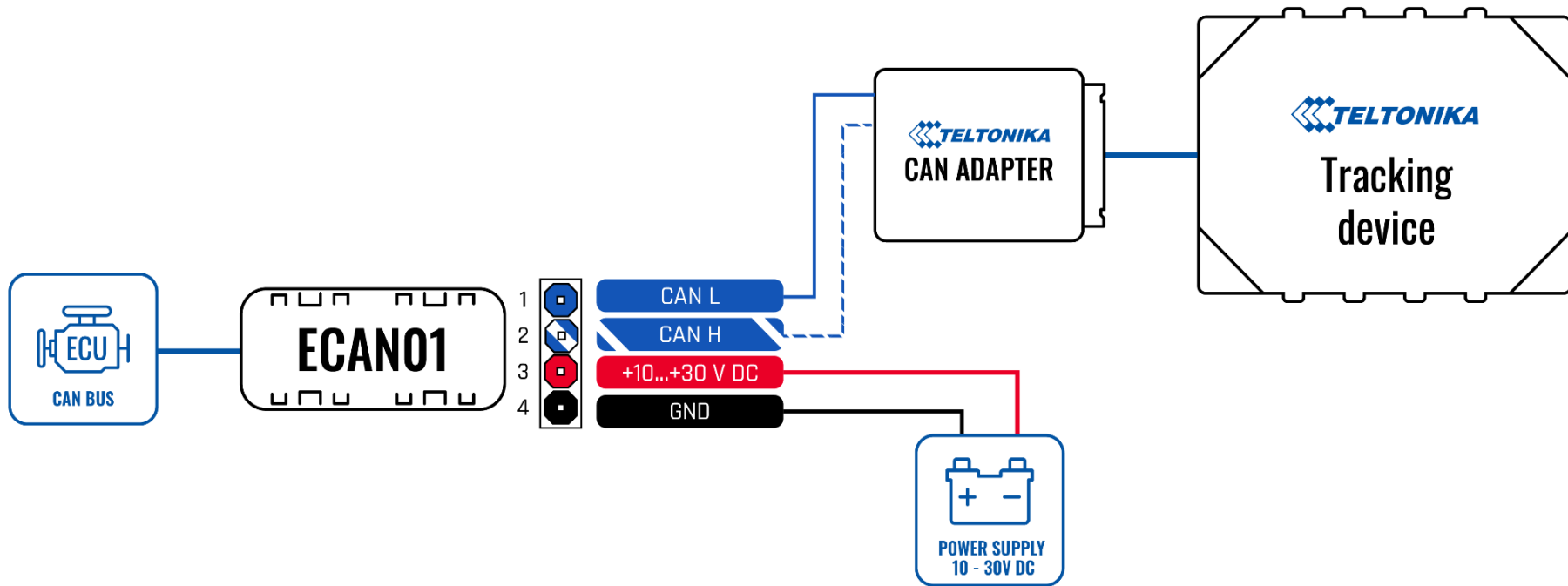


Figure 3 ECAN01 wiring scheme

Set up your device

How to insert CAN wires into contactless reader ECAN01

1. Gently open ECAN01 **cover** using **plastic pry tool** from both sides.
2. Insert **CAN** wires as shown in **figure 5**. Please make sure that correct slots are used (CAN **High**/CAN **Low**).
3. Gently close the device.
4. Device is ready-to-use.

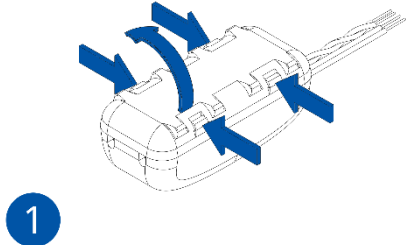


Figure 4 Opening the cover

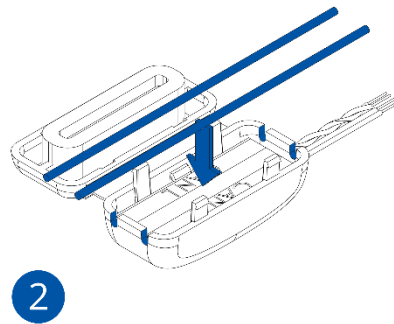


Figure 5 Inserting CAN bus wires

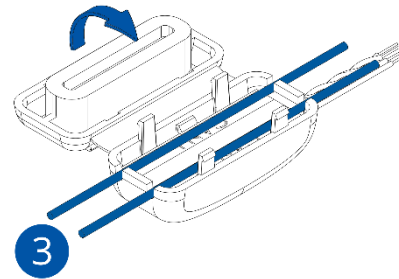


Figure 6 Closing the cover

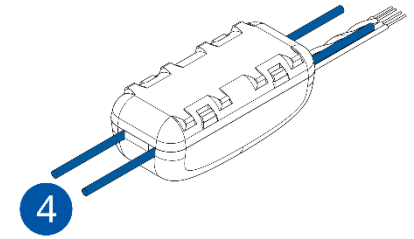


Figure 7 Device is ready to use

Characteristics

Table 2 technical features

Characteristic description	Value			
	Min.	Typ.	Max.	Unit
Supply Voltage				
Supply voltage (recommended operating conditions)	+10	+12	+30	V
CURRENT CONSUMPTION				
Working mode		6.9		mA
Stand-by mode		1.2		mA
OPERATING TEMPERATURE				
Operating temperature	-25		+85	°C
PROTECTION				
Internal resettable fuse (max 33 V)			750	mA



Figure 8 Dimensions

Dimensions

- Dimensions 39,8 x 18 x 16,7 mm

Mounting recommendations

- Connecting wires
 - Device should be connected by following a connection scheme, which includes program number and CAN bus wires location. It will be provided on request by Teltonika technical support.
 - In order to locate CAN bus wires, any twisted pair in the vehicle should be checked especially on OBD, ICM (Instrument Cluster Module) and ECU.
 - Wires should be connected while the module is not plugged in.
 - Wires should be fastened to stable wires or other non-moving parts. Any heat emitting and/or moving objects should be kept away from the wires.
 - If the wires are placed in the exterior or in places where they can be damaged or exposed to heat, humidity, dirt, etc., additional insulation should be applied and the wires should not be loose.
 - Wires cannot be connected to the board computers or control units.
- Connecting power source
 - Be sure that after the car computer goes to sleep mode, power would still be available on power wires. Depending on the car model, this may happen in 5 to 30 minutes period.
 - When the module is connected, measure the voltage again to make sure it did not decrease.
 - It is recommended to connect to the main power cable in the fuse box.
- Connecting ground wire
 - Ground wire is connected to the vehicle frame or metal parts that are fixed to the frame.
 - If the wire is fixed with the bolt, the loop must be connected to the end of the wire.
 - For better contact scrub paint from the spot where loop is going to be connected.

Safety information

This message contains information on how to operate ECAN01 safely. By following these requirements and recommendations, you will avoid dangerous situations. You must read these instructions carefully and follow them strictly before operating the device!

- The device uses SELV limited power source. The nominal voltage is +12 V DC. The allowed voltage range is +10..+30 V DC.
- To avoid mechanical damage, it is advised to transport the device in an impact-proof package.
- When connecting the power connector wires to the vehicle, the appropriate jumpers of the vehicle power supply should be disconnected.
- Before unmounting the device from the vehicle, the power connector must be disconnected.



Do not disassemble the device. If the device is damaged, the power supply cables are not insulated or the insulation is damaged, DO NOT touch the device before unplugging the power supply.



The device must be connected only by qualified personnel.



The device must be firmly fastened in a predefined location.



The programming must be performed using a PC with autonomic power supply.



Installation and/or handling during a lightning storm is prohibited.



The device is susceptible to water and humidity.

Warranty

TELTONIKA guarantees its products to be free of any manufacturing defects for a period of **24 months**. With additional agreement we can agree on a different warranty period, for more detailed information please contact our sales manager.

Contact us teltonika.it/company/contacts

If a product should fail within this specific warranty time, the product can be:

- Repaired
- Replaced with a new product
- Replaced with an equivalent repaired product fulfilling the same functionality
- TELTONIKA can also repair products that are out of warranty at an agreed cost.

TELTONIKA PRODUCTS ARE INTENDED TO BE USED BY PERSONS WITH TRAINING AND EXPERIENCE. ANY OTHER USE RENDERS THE LIMITED WARRANTIES EXPRESSED HEREIN AND ALL IMPLIED WARRANTIES NULL AND VOID AND SAME ARE HEREBY EXCLUDED. ALSO EXCLUDED FROM THIS LIMITED WARRANTY ARE ANY AND ALL INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING BUT NOT LIMITED TO, LOSS OF USE OR REVENUE, LOSS OF TIME, INCONVENIENCE OR ANY OTHER ECONOMIC LOSS.

More information can be found at teltonika.it/warranty-repair

Warranty Disclaimer