V2 CLESS M

User Manual

FOREWORD

INSTALLATION. We recommend you to read these instructions very carefully. They are included with your V2 Cless Reader in order to explain its installation.

USE. Once it is installed and equipped with the application you case use your V2 Cless reader.

GUARANTEE AND SAFETY. In order to benefit from the guarantee on this equipment and in order to follow the safety instructions, only authorized person shall entrust assembly or disassembly procedures and installed the reader.

CONTENTS

1.SAFETY INSTRUCTIONS

A- In order to power down your V2 CLess :

Disconnect the V2 Cless power supply block from the electric power supply network

B- Electrical power supply

a. Only use Parkeon Contacless reader cable
b. Only use Parkeon antenna cable with it's Ferrite for EMI protection
c. The V2 Cless input voltage should be +12VDC +/- 10%

C- Reader cover Flap

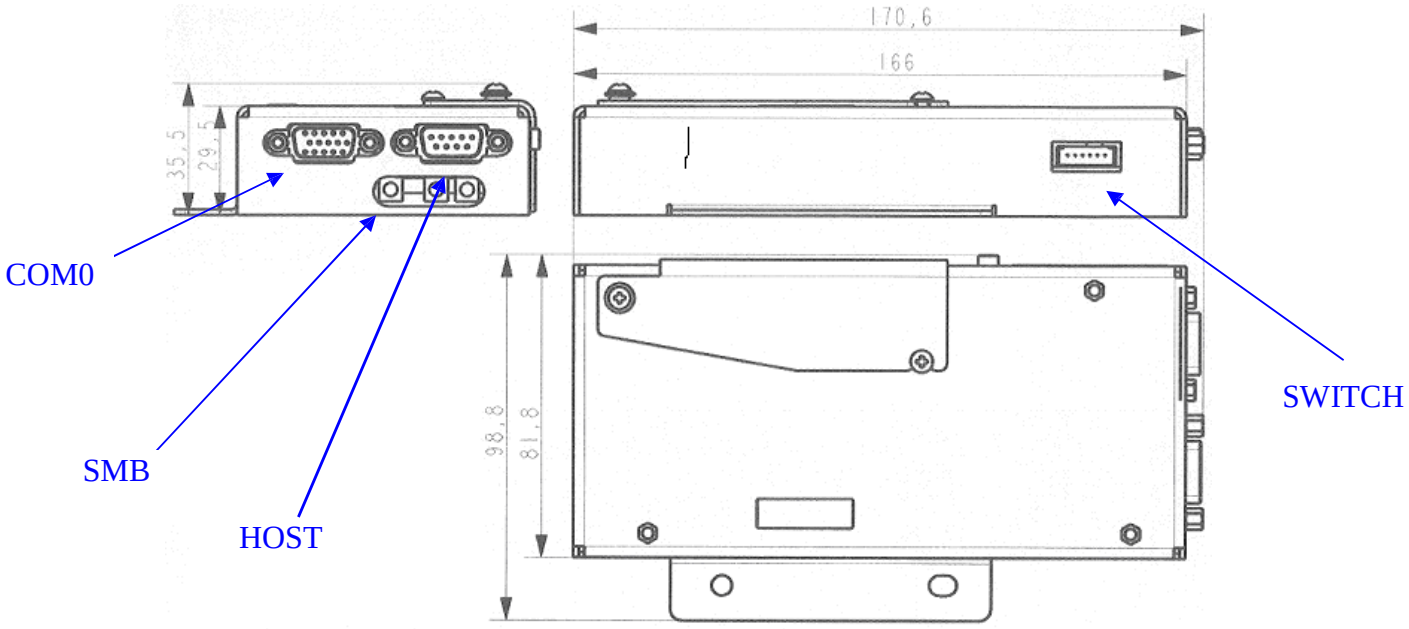
The cover flap located on the side (see chapter – installation and removal of Sams) must be in place during normal operation

2.UNPACKING. PRODUCT CONTENTS

Carefully preserve the packaging of the V2 Cless and the antenna.
It must be re-used whenever the reader is shipped.

3.DESCRIPTION OF THE RF READER

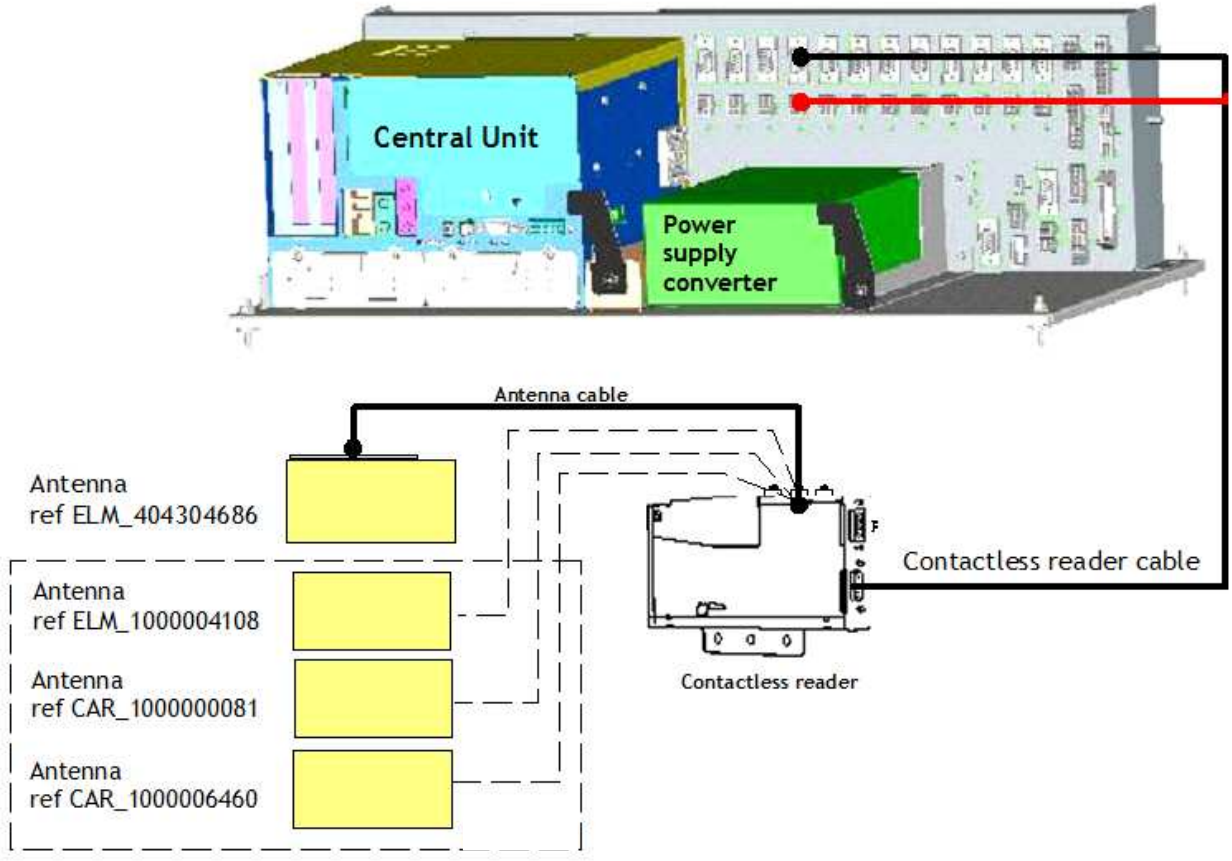
Reminder of Safety Instructions :
Select the recommended electrical Power from Excelsys



V2 Cless connections

COM0 = **serial link for debug (option)**
SMB = **RF antenna connection**
HOST = **Serial link + power supply**
SWITCH = **Antenna detection switch (option)**

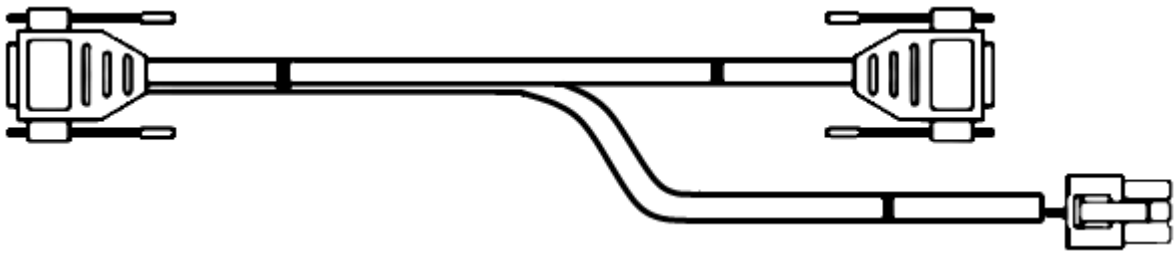
Diagram of connection



Only 4 different antennas can be integrated (ref ELM_404304686/ ELM_1000004108 / CAR_10000000081 / CAR_1000006460)

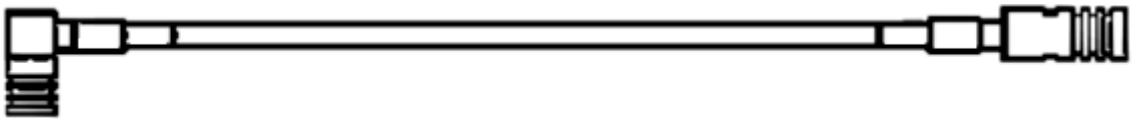
Contactless reader cable

Power supply and communication of contactless reader with the card connector is made via a cable labeled "CLESS" and "PC" - "POWER CLESS".



Antenna cable

The antenna is connected to the contactless reader by means of a cable with an angled MCX coaxial connector and an angled SMB coaxial connector.



4.INSTALLING THE V2 CLESS

4.1 Module

Tools required: Philips head screwdriver

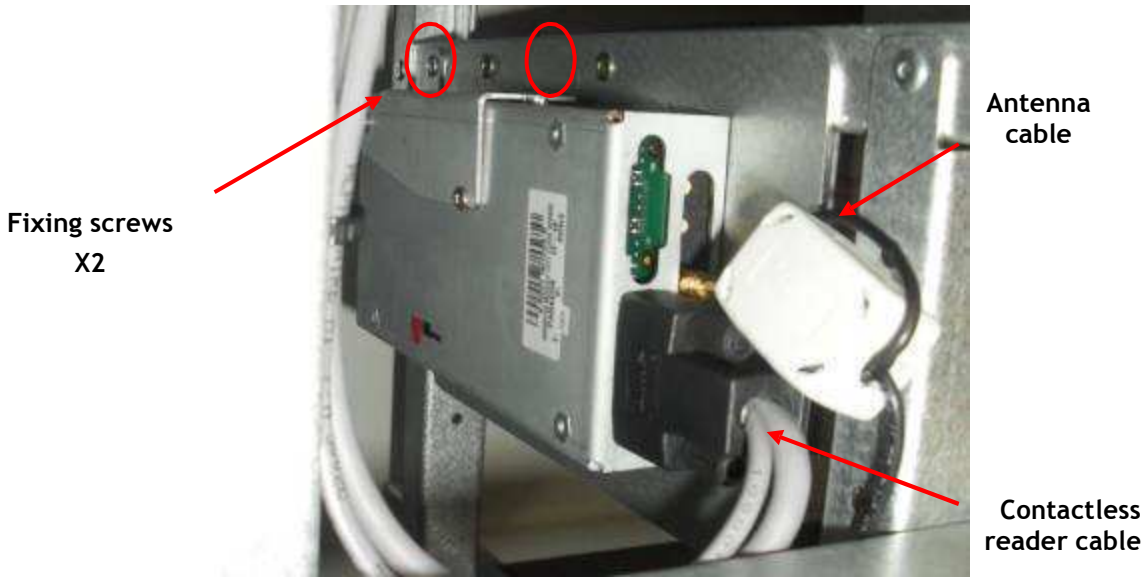
Time required for the intervention: 2 min

Other components to remove/Preliminaries: switch off the power to the devices in EMS mode or with the button on the front of the CPU.

Disconnect the antenna cable and the contactless reader cable.

Slightly unscrew the two fastening screws with a Philips head screwdriver.

Unscrew the two bolts holding the drive module.



Contactless reader

Remove the faulty drive module housing.

Mount the new drive module with SAMs (if present in the former).

Connect the cables on the previous drive module.

Press the power button device of the CPU.

Perform a functional test using the "test connection map" from the menu EMS "travel card reader.

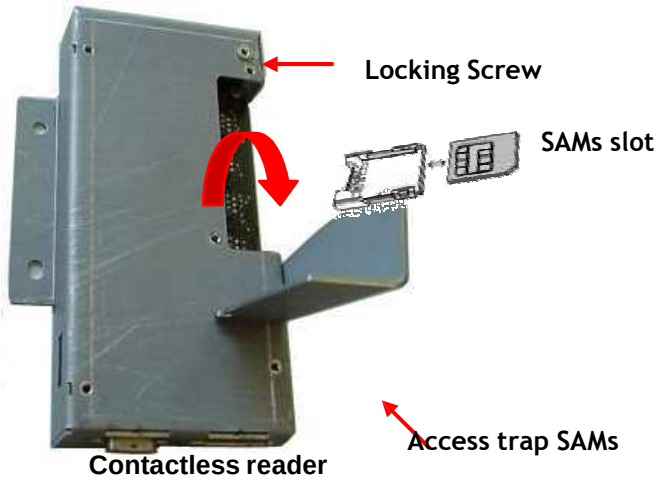
4.2 Antenna

Connect the antenna cable.
Put it on the four screws.

5.INSTALLING AND REMOVING SECURITY ACCESS MODULES

Tools required: key 8
Time required for the intervention: 8 + 3 min

Unscrew the screw that locks the access trap SAMs.
Rotate the trap to access locations of SAMs.



Remove the SAMs their modules.
Set new in empty slot positions.
Replace the contactless reader.
Connect the cables on the previous contactless reader.
Press the power button device of the CPU.
Perform a functional test using the "test connection map" from the menu EMS "travel card reader.

6. DAILY USE

No specific care shall be done. Clean the antenna each year with Isopropanol

7. V2 CLESS CHARACTERISTICS

Physical Characteristics
Mass : approximately 400g without cable
Dimensions : approximately 166x79x35 mm (LxWxH)

Standards
See “EC standard compliance marking” in appendix

Operating conditions
Class II equipement

Electric supply network : 12VDC +/- 10%
Max. consumption : 0.5 A

Ambiant temperature : from -25℃ to +70℃
Max. relative humidity : 95% at +55℃

Serial link : COM, level RS232

Storage conditions
Storage temperature : -20℃, +85℃
Max relative humidity : 90% at +55℃

8. EC STANDARD COMPLIANCE MARKING

EC standard compliance marking certifies that the product stipulated below:

Complies with the basic requirements of European Directive 1999/5/CE of 09/03/1999, known as the “R&TTE Directive” concerning RF equipment and telecommunications terminals with respect to :

Health and safety protection of the user and all other persons,
EMC protection

Conforms to the following harmonized standards:

CEI 60950-1	Electrical safety of data processing equipment including electrical office equipment. Issue CEI 60950-1: 2005/A1:2010
RSS-Gen	Issue 3, December 2010 General Requirements and information for the certification of Radio Apparatus
RSS-210	Issue 8, December 2010 Licence-exempt Radio Apparatus (All Frequency Bands) : Category I equipment
ANSI C63.4 (03)	Methods of measurement of Radio-Noise Emissions from low-voltage Electrical and Electronic Equipment in the Range of 9 KHz to 40 GHz

9. FCC COMPLIANCE STATEMENT

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:
(1). This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limts for a class B digital device, pursuant to part 15 of the FCC Rules.

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