

VIMAR 41017 Transponder Reader Instruction Manual

Home » VIMAR » VIMAR 41017 Transponder Reader Instruction Manual



Contents

- 1 VIMAR 41017 Transponder Reader
- **2 Product Specifications**
- **3 Product Usage Instructions**
- 4 FAQ
- 5 Front and rear view
- 6 Legend
- 7 Description
- **8 Characteristics**
- 9 Standalone and slave-DueFili modes
- 10 Operation
- 11 Installation rules
- **12 CONTACT**
- 13 Documents / Resources
 - 13.1 References



VIMAR 41017 Transponder Reader



Product Specifications

• Product Name: Transponder Reader

Model Number: 41017Input Voltage: 5V DCMax Current: 1A

Max Voltage: 48V DC

Product Usage Instructions

- Antenna
- LED for light signals
- Removable wiring terminal block
- Connector for connection to the previous electronic module
- Connector for connection to the next electronic module
- Mini-USB connector for configuration and updates via PC

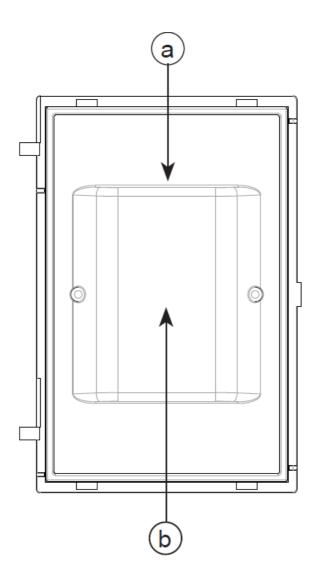
- RJ45 connector for connection to Elvox IP video door entry system and/or PoE power supply
- CA-: Input programmable via configuration software (e.g., lock opening command, sensor for open door indication)
- CA+: Connect to an isolated SELV voltage-free contact
- F1 relay output (NO contact): Control resistive loads externally powered with max current 1A and max voltage 48V DC
- 5V-: Additional external power supply, 5V DC
- 5V+: Connect with the correct polarity

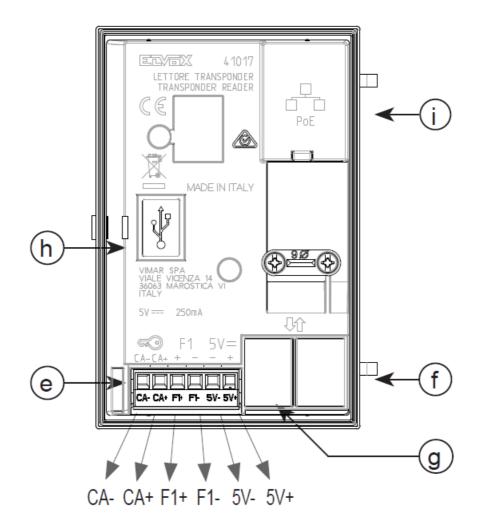
FAQ

- Q: What is the purpose of the Mini-USB connector?
 - A: The Mini-USB connector is used for configuration and updating the device via a connection to a PC.
- Q: How should I connect the F1 relay output?
 - **A:** The F1 relay output should be connected to resistive loads externally powered with a maximum current of 1A and a maximum voltage of 48V DC.

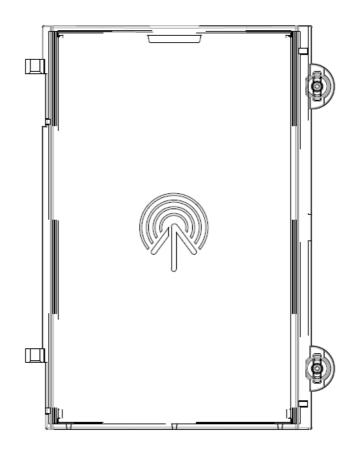
Front and rear view

Front view





Transponder reader front panel (available to purchase separately)

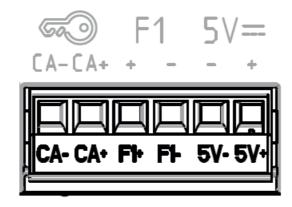


Legend

- a) Aerial
- b) LED for light signals
- e) Removable wiring terminal block
- f) Connector for the connection to the previous electronic module
- g) Connector for the connection to the next electronic module
- h) Mini-USB connector, for configuration and updating via connection to PC.
- i) RJ45 connector, for connection to Elvox IP video door entry system and/or to PoE power supply.

Connection terminal block description

Terminal functions	
CA-	Input that can be programmed using configuration software (e.g. lock opening command, emerge ncy door open warning sensor, activation of available system actuator).
CA+	Note: connect to an isolated SELV voltage-free contact.
F1+	"F1" relay output (NO contact). The contact can control resistive loads externally powered with a maximum current of 1 A and a maximum voltage of 48 Vdc (maximum voltage permitted by EN 6 2368-1 for the ES1/SELV).
F1-	
5V-	Additional external power supply., 5V DC. Caution: observe the correct polarity when making the connection.
5V+	



Transponder reader for access control, white LED backlighting, 1 input that can be enabled for an additional push button, 1 NO relay output, to be completed with front panel.

Description

• The device allows access control and actuator control by RFID card. Four possible operating modes, according to the type of installation: standalone, slave-DueFili, eipvdes (IP Video- Door Entry System), or slave-eipvdes. For the standalone and slave-DueFili operating modes, the management and update configuration software to be used is SaveProg; for eipvdes and slave-eipvdes, Video Door IP Manager is to be used. Once the slave mode has been selected, the product is autonomously configured in slave-DueFili or slave-lives mode depending on which panel it is connected to.

- In standalone mode, recognition of a previously registered card commands activation of relay F1. It is also possible to enable input CA for the connection of an additional push button and directly command output F1. In this mode, SaveProg can be used to register cards and configure the device.
- In slave-DueFili mode (factory default setting), the device must be connected to an electronic audio or audio/video module in the Pixel 2-wire series using specific wiring (connectors f or g). The above description for standalone mode applies. Alternatively, output F1 may be used to control any other output (relay/lock) of the audio or audio/video module or other auxiliary modules of the system.
- In live mode, the device must be connected directly (via RJ45 interface) to a network on which an Elvox IP video door entry service is provided. If connected to a network with an Elvox IP video door entry system, the device is identified and programming and configuration operations are performed using Video-Door IP Manager. Each registered card, and also input CA, can be associated with the activation of an actuator in the video door entry system (including the local F1 relay).
- Alternatively, CA can be configured as the sensor input for the "door open" signal.
- In slave-lives mode, the device must be connected to an electronic audio/video module in the Pixel IP series using specific wiring (connectors f or g). The functional characteristics, the programming, and the configuration operations are the same as described for the lives mode.
- SaveProg can be used to change configuration mode.
- SaveProg can be used to set one of the following modes: standalone, slave (DueFili or lives), and eipvdes.
- The device is compliant with the ISO 14443A/MIFARE standard: MIFARE™ CLASSIC (1K e 4K), MIFARE ULTRALIGHT™ (ULTRALIGHT EV1/ULTRALIGHT C) and MIFARE DESFire™ (DESFIRE EV1 2K/4K/8K). All types of conforming cards are read by default. The types can be restricted using Saveprog.

Characteristics

- · Power supply:
 - 1) from the electronic audio or audio/video module, via specific wiring (slave-DueFili and slave-eipvdes modes);
 - 2) from additional power supply unit on terminals 5V+ and 5V- (all operating modes);
 - 3) Power-over-Ethernet Class 0 (IEEE 802.3-2012) via RJ45 interface. NOTE: The RJ45 network interface is to be connected exclusively to a SELV (Safety Extra- Low Voltage) network. The Power-over-Ethernet power supply unit (PSE) must provide electrical insulation between any accessible conductor including the earth wire, if there is one, and all the contacts of the network ports, including those not used by the PSE or by the device to be installed (eipvdes mode).
- Maximum power consumption: 250 mA at 5V.
- Average PoE consumption: 2.5 W.
- Operating temperature: -25 °C / +55 °C.
- · Degree of protection: IP54.
- Degree of protection against impact: IK08.
- Frequency range: 13.553-13.567 MHz
- RF transmission power: < 60 dBµA/m
- Operating distance: up to 1 cm.
- Compatible with Vimar programmable transponder card (art. 01598).

Standalone and slave-DueFili modes

- A maximum of 2000 user or administrator cards can be registered in total.
- The first type can be used to activate the configured actuator, while the second can be used to register a new user card without having to use SaveProg (manual registration).

Configuration

Connect the device to the PC using a USB cable. Refer to the SaveProg documentation for specific details. It is possible to:

- Set the operating mode: standalone, slave or eipvdes.
- · Add and remove user and administrator cards.
- Associate each card with a name and an extension number in order to simplify removal. The archive of a user's card-name pairings is saved by SaveProg on the PC being used when programming the device.

In standalone mode, it is possible to configure input CA and configure the activation time of relay F1.

- In slave-DueFili mode, it is possible to acquire the cards using SaveProg or module 41018. Please refer to the relevant documentation for details.
- In the absence of card additions using the display or using SaveProg, the acquisition mode remains the one
 with the administrator card.
- The cards acquired using the display or loaded into the contacts list using SaveProg disable the cards present in the module. Moreover, card acquisition using the display and using SaveProg does not follow the card format setting saved in 41017 ("card type" flag), if at least one card is present in the contacts list.
- Enabling of input CA and relay F1 configuration is done directly on the AV module. Alternatively, instead of
 controlling the output F1 of the device, recognition of a registered card may be used to control any other output
 (relay/lock) of the audio or audio/video module or other auxiliary modules of the system. You can also configure
 the output F1 as a common or exclusive lock for the outdoor unit.
- Cards programmed in slave-DueFili mode disable the cards acquired in standalone mode.

Manual registration

In standalone mode, the following manual registration procedure allows you to add new user cards t the device without having to use programming tools:

- Hold a previously registered administrator card up to the reader;
- Within 5 seconds, hold the new card to be registered as a user up to the reader; the blue LED on the device will flash rapidly during the registration period;
- Hold the card in position until registration is confirmed; the green LED will illuminate for 1 second (no command is activated);
- The procedure then restarts from step 2: the blue LED starts flashing rapidly, indicating that another user card can be registered within the next 5 seconds.

If no card is read during the 5-second registration period, or if there is a fault, the white LED will illuminate and the procedure will be canceled. Cards can only be deleted using SaveProg.

 Refer to the documentation for Elvox IP and Video Door IP Manager. These modes do not support the use of administrator cards.

Operation

- When the device is in a standby state, the white LED is illuminated. When a user card is read, the green LED illuminates for 3 seconds, and the programmed command is executed (activation of output F1 or other command according to the configuration). If the card presented is not registered, the red LED will flash for 3 seconds.
- In the event of an error, the red LED will flash continuously.
- Check that: the device is connected to a compatible audio or audio/video module; the wiring has been connected correctly; the firmware versions of the modules are updated.

Updating

- The device can be updated using SaveProg/FWUpdate.
- Disconnect the device from the auxiliary power supply and/or PoE, connect it to the PC by USB cable, and start
 the update procedure. During the update procedure, the red LED stays on. If updating does not start within 30
 seconds of connecting the PC by
- USB cable, the device will return to operating mode and it will no longer be possible to update it. Disconnect and then reconnect the USB cable to repeat the operation.
- When it is part of an Elvox IP video door entry system (eipvdes or slave-eipvdes), the device is updated via Video Door IP Manager by the network.
- NOTE: the device is able to operate in eipvdes and slaveeipvdes modes and can be managed and updated using Video Door IP Manager if it is equipped with firmware version 1.8.5.3 or later. If not, it can be updated using SaveProg/ FWUpdate.

The instruction manual is downloadable from the site www.vimar.com

Installation rules

• Installation should be carried out by qualified personnel in compliance with the current regulations regarding the installation of electrical equipment in the country where the products are installed

Conformity

- · RED directive. RoHS directive.
- Standards EN 62368-1, EN 300 330, EN 301 489-3, EN 61000-6-1, EN 61000-6-3, EN 62311, EN IEC 63000.
- REACH (EU) Regulation no. 1907/2006 Art.33. The product may contain traces of lead.
- Vimar SpA declares that the radio equipment complies with Directive 2014/53/EU. The full text of the EU
 declaration of conformity is on the product sheet available at the following Internet address: www.vimar.com.

WEEE - Information for users

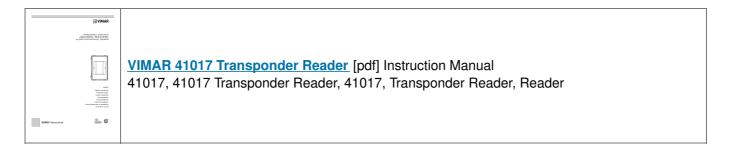
If the crossed-out bin symbol appears on the equipment or packaging, this means the product must not be included with other general waste at the end of its working life. The user must take the worn product to a sorted waste center, or return it to the retailer when purchasing a new one. Products for disposal can be consigned free of charge (without any new purchase obligation) to retailers with a sales area of at least 400m2 if they measure less than 25cm. An efficient sorted waste collection for the environmentally friendly disposal of the used device, or its subsequent recycling, helps avoid the potential negative effects on the environment and people's health and encourages the re-use and/or recycling of the construction materials.



CONTACT

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- 36063 Marostica VI Italy
- 49400853C0 00 2407 www.vimar.com

Documents / Resources



References

- Home automation, electrical equipment, smart home Vimar energia positiva
- Mome automation, electrical equipment, smart home Vimar energia positiva
- User Manual

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