

# Z-2 RF-1996

## Desktop RFID reader/writer/communicator 125KHz for IronLogic RFID locks maintenance User Manual

### 1. OVERVIEW

Desktop RFID reader Z-2 RF-1996, referred to further as “Adapter”, is used for:

1) Acquiring the serial numbers from EM-Marine and Atmel T5557 (Temic) contactless tokens (tokens, key fobs etc.) and transferring them into PCs via USB interface.

2) Writing information into protected memory blocks of Atmel T5557 (Temic) cards.

Accessing memory of Z-series locks with access control function (all Z-series locks and Eurolock, Z-9, Z-Eurolock etc.) including writing and reading information about tokens (cards) serial numbers, downloading events, setting clocks and parameters and updating the locks firmware.

### 2. FEATURES

Automatic detection of token standards.

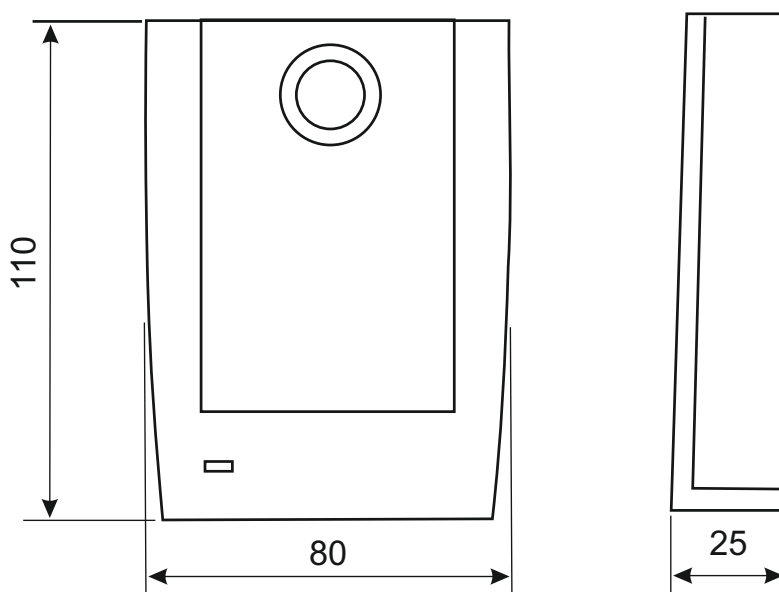
Can be used in servicing Z-series locks with access control function (see [www.ironlogic.me](http://www.ironlogic.me) for details).

For lock servicing, “Lock's Commander” and “Lock's Manager” software are recommended (see [www.ironlogic.me](http://www.ironlogic.me)).

Powering and management is done via USB, therefore standalone operation is not possible. Users can upgrade the firmware.

### 3. CONNECTION

Connect the reader to an available USB port on the PC, via supplied USB A/B cable. Install the drivers from a supplied disk.



**4. OPERATION.**

After the drivers are installed, a new virtual COM port will be detected on the PC, through which the information will be exchanged with that PC.

When working properly, reader's LED shines red, indicating that it is powered on.

When a token is brought into reader's working zone, the LED will shortly change colour to green and a buzzer will sound.

While the token stays within working zone, the red LED is on.

The information exchange session between a token and reader is controlled by software. Either only token serial number is read, or data are read or written from/to Temic token memory.

To work with locks, an additional antenna is used, which is located on the bottom side of the reader and marked by a sticker. With this antenna, brought up to the lock, the reader will connect to the lock controller.

After connection is established, the software may: download the events, write the card codes, set up the controller operation modes and update its firmware.

The reader operation is described in details in the documentation for the corresponding software.



**5. SPECIFICATIONS**

Working frequency: .....	125 kHz.
Ability to write into T5557 token memory: .....	Present.
Supported token types: .....	EM-Marine, Atmel T5557.
Max. token reading distance: .....	4 cm.
Lock connection distance: .....	1...2 cm.
PC interface: .....	USB.
Reader to computer distance: .....	max. 1.8 m.
Card reading indication: .....	buzzer sound, bicoloured LED.
Power: .....	powered by USB port.
Casing material: .....	ABS coated plastic.
Dimensions, mm: .....	110 x 80 x 25.
Weight: .....	max 180 g.

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-Windows drivers disk .....	1
-USB A/B cable .....	1

## 7. OPERATIONAL CONDITIONS

Recommended air temperature: 5...40°C.

Humidity: ≤ 80% at 25°C.

If operational conditions are differing from described above, device specifications can deviate from specified values.

The controller is to be operated in absence of: precipitation, direct sunlight, sand, dust, water condensation.

## 8. LIMITED WARRANTY

This device is covered by a limited warranty for 24 months from the date of sale.

The warranty becomes void if:

- This Manual is not followed;
- Device has physical damage;
- Device has visible traces of exposure to moisture and aggressive chemicals;
- Device circuits have visible traces of being tampered with by unauthorised parties.

Under active warranty, the Manufacturer will repair the device or replace any broken parts, FREE of charge, if the fault is caused by manufacturing defect.

## 9. CONTACTS

### Authorized representative in the European Union:

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The symbol of crossed-through waste bin on wheels means that the product must be disposed of at a separate collection point. This also applies to the product and all accessories marked with this symbol. Products labeled as such must not be disposed of with normal household waste, but should be taken to a collection point for recycling electrical and electronic equipment. Recycling helps to reduce the consumption of raw materials, thus protecting the environment.

