



# User Manual

Code: EVR-8  
TIME & ATTENDANCE RECORDER **EVR-8**

## Warning!

Please read the user manual included in this work as it contains important information related with safety of installation and use of the device.

Only persons who read the user manual may use the device.

The user manual must be kept because it may be required in the future. The device is to be used exclusively for purposes specified in this user manual.

The device must be unpacked prior to starting-up. After removing the packaging make sure the device is in working order.

If the product has defects, it should not be used until it is repaired.

The product is intended for use at home and commercial use and may not be used for other than intended use.

The manufacturer is not liable for damages resulting from not adhering to the rules contained in the user manual, therefore, we recommend to follow the aforementioned safety rules for operation and maintenance of the device. In this way you will ensure yourself safety and avoid causing damage to the device.

The manufacturer and the supplier are not liable for losses or damages arising out of the product, including financial or intangible losses, loss of profits, income, data, pleasure from use of the product or other products related with it - indirect, incidental or consequential loss or damage. The above provisions apply whether the loss or damage concerns:

1. Deterioration of quality or the lack of operation of the products or products related with it due to damage as well as the lack of access to the product when it is undergoing repair, which results in stoppage the loss of user's time or a break in business activity;
2. Improper results of operation of the product or products related with it;
3. It applies to losses and damages according to any legal category, including negligence and other losses, termination of a contract, expressed or implied guarantee and strict liability (even if the manufacturer or the supplier was notified about the possibility of occurrence of such damages).

### Safety measures:

Particular attention at designing was directed to quality standards of the device where ensuring safety of operation is the most important factor.

The device must be secured against contact with caustic, staining and viscous fluids.

The device was designed in such a way that it restarts operation when power supply is restored after a break.

**Attention! We recommend using protections to further protect the device from possible overvoltages in installations. Surge protectors are effective protection against accidental pass to the device voltages higher than the rated. Damages caused by pass the voltages higher than specified in manual, are not under warranty.**

Turn off the device before transporting it.

Prior to connecting the device to a power source check whether the supplied voltage is consistent with rated voltage specified in the user manual.

### Proper product disposal:

A marking of a crossed out waste bin indicates that the product may not be disposed together with other household waste in the entire EU. To avoid possible damage to the natural environment of health due to uncontrolled waste disposal, therefore, it should be handed over for recycling, propagating in this way sustainable use of natural resources.

To return a worn-out product, use a collection and disposal system of this type of equipment or contact a seller from whom it was purchased. He will then be recycled in an environmentally-friendly way.

The EVR-8 T&A Recorder enables events handling and recording from two RFID readers (with or without a keypad) in Wiegand standard. Communication between the device and the computer is done using RS-485.

The software included with the device allows for convenient management of a system consisting of up to 8 devices. The program allows to register devices, enter into the system and edit users, assign specific users access to individual rooms and view data collected by devices together with statistics calculated on the basis of these data.

As part of the statistics, it is possible to individually define for each employee the working days and the typical start and end time of the working day, taking into account the admissible times: early coming, late coming, early leaving, and later leaving. Based on these data and events registered for a given user, the program calculates working time, time spent on the facility, break time (time spent outside the facility during working hours). In addition, the EVR-8 software allows displaying the average working time of a given user in a weekly, monthly cycle and average working time on particular days of the week.

The device makes a local record of the events on the SD/SDHC card.

The KINGSTON 8GB memory card included in the kit.

Note! The SD card must be formatted in FAT32.



Number of supported readers:	2 pcs
Relay output:	1 pcs NO/NC
Relay contacts load:	<ul style="list-style-type: none"> <li>• max. 30 V DC / 50 V AC,</li> <li>• max. 10 A</li> </ul>
Power supply:	12 V DC
Current consumption:	≤ 55 mA (max) - (without connected readers)
Distance between reader and recorder:	max. 150 m
Main features:	<ul style="list-style-type: none"> <li>• The ability to build a system of up to 8 devices of the EVR-8</li> <li>• The included EVR-8 software allows to collect data from up to 8 devices and enables a thorough analysis of these data, as well as statistics based on them</li> <li>• Connecting to the EVR-8 maximal two readers with or without a keypad (Wiegand standard)</li> <li>• Possibility to connect a door release button instead of one of the readers</li> <li>• Events saving to the SD card - FAT32</li> <li>• Its own clock with battery backup</li> <li>• Relay to control for example: electric strike or electromagnetic lock</li> <li>• The connection to the computer is via the RS-485 port</li> </ul>
Weight:	0.09 kg
Dimensions:	103 x 56 x 30 mm
Guarantee:	<b>3 years</b>
Manufacturer / Brand:	DELTA

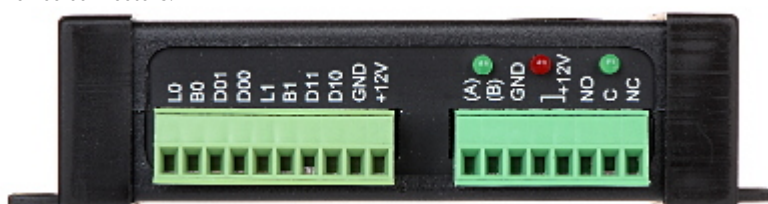
Front panel:



Rear panel:



Device connectors:



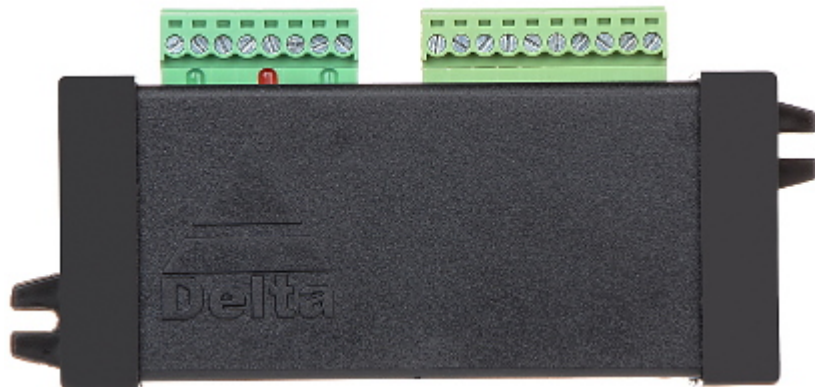
- L0 - Channel 0 diode control
- B0 - Channel 0 buzzer control
- D01 - Input D1 of the port 0
- D00 - Input D0 of the port 0 (door release button input)
- L1 - Channel 1 diode control
- B1 - Channel 1 buzzer control
- D11 - Input D1 of the port 1
- D10 - Input D0 of the port 1
- GND - Power ground of the readers
- +12V Power output of the readers
- (A) - RS-485
- (B) - RS-485
- GND - Power input
- 2x 12 Power input

NO - NO relay output

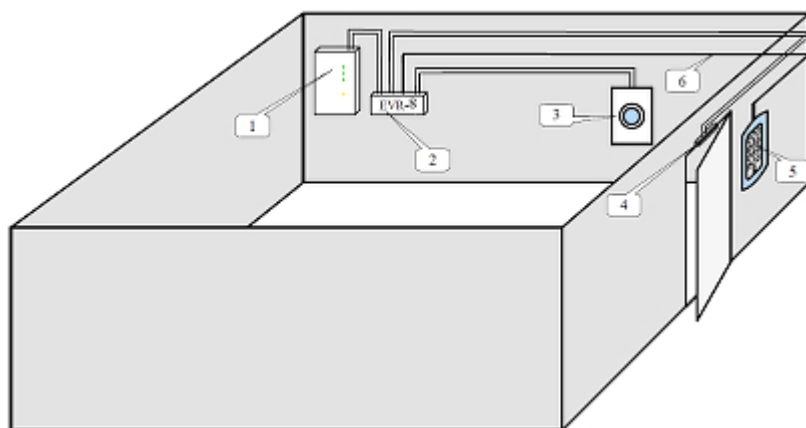
C - C relay output

NC - NC relay output

Top view:



Typical operation diagram:



1) Power adapter

2) EVR-8

3) Door exit button (connect between D00 input and ground (GND))

4) Electromagnetic Lock

5) Reader with keypad

6) Six-wire cable (e.g.: YTDY-6)



Blue - USB

Orange - RS-485



Yellow - 2-wire connection of the door opening button

1. Computer
2. USB to RS-485 interface converter
3. Reader with keypad
4. Reader without keypad
5. Door exit button (connect between D00 input and ground (GND))
6. EVR-8

[illegible][illegible]

In the kit:



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## PACKAGE

Dimensions (L x W x H): 0x0x0 mm	Gross Weight: 0 kg
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