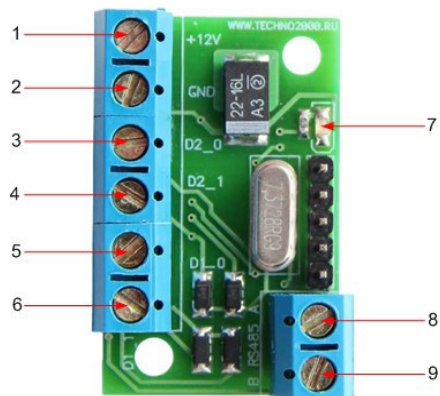


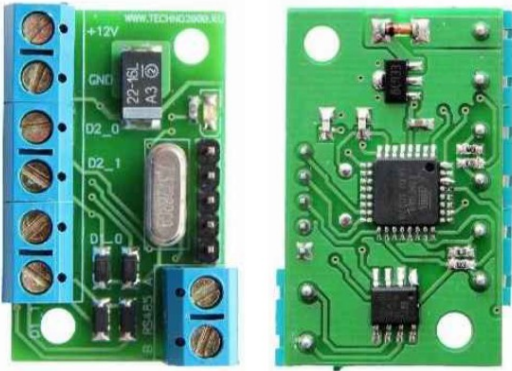
**CONTROLLER  
ACCESS CONTROL  
DV-PROXY1  
Manual**



## CONTENT

<b>1. General description</b>	<b>3</b>
<b>2. Specifications</b>	<b>3</b>
<b>3. Composition of the product</b>	<b>3</b>
<b>4. Description of workcontroller PROXY1</b>	<b>3</b>
4.1. Work algorithm	3
4.2. Appearance and installationPROXY1	4
4.3. Operating modes	4
4.4. Retesting and writing address	4
4.5. Working mode in the DIVISION system	6
<b>5. Controller operation DV-PROXY1.</b>	<b>6</b>
<b>6. Maintenance.</b>	<b>6</b>
<b>7. Storage</b>	<b>7</b>
<b>8. Manufacturer's Warranties</b>	<b>7</b>
<b>9. Manufacturer information</b>	<b>7</b>
<b>10. Certificate of acceptance and packaging</b>	<b>7</b>

## 1. General description.



DV-PROXY1 - electronic controller card readers with WIGAND 26 interface. The DV-PROXY1 controller is designed to build access control and management systems (ACS). DV-PROXY1 can only work as part of the DIVISION system.

The appearance of the DV-PROXY1 controller is shown in Figure 1.

*Pic.1. Appearance of the DV-PROXY1 controller*

## 2. Specifications.

Number of connected readers to the controller	2,
Type of protocol of electronic keys (access cards)	WIGAND 26,
Addressing of controllers in the DIVISION system:	from 1 to 235,
Number of controllers in a segment (on one RS 485 loop), no more than pcs.	30,
Controller supply voltage, V	7.....13,
Consumed current, no more than, A	0.1,
Serial port parameters:	
speed, baud	19200,
number of bits	7,
parity	even,
stop bit	1,
Control interface	RS485 half duplex,
Control Protocol	ModBus ASCII,
Overall dimensions (WxHxD), mm	22x35x15
Device weight	36 gr.

## 3. Product composition.

Delivery includes:

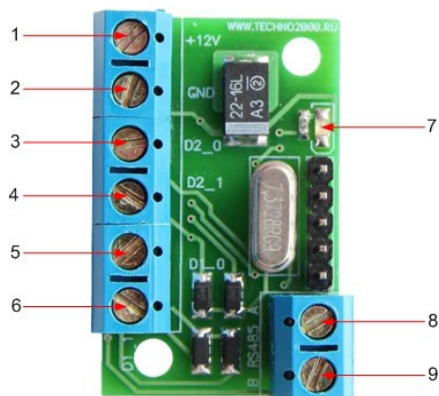
1. DV-PROXY1 controller - 1 pc.;
2. DV-PROXY1 instruction manual - 1 pc.

## four. Description of the controller DV-PROXY1.

### 4.1. Work algorithm.

The DV-PROXY1 controller is designed to build access control and management systems (ACS). When presenting the card to the reader, the controller reads the card code and stores it in its memory until this information is read by the central controller.

### 4.2. Appearance and installation DV-PROXY1.



Structurally, DV - PROXY1 is made in the form of a printed circuit board with the possibility of installation in a case of a suitable size. Communication interface RS485.

View fees to controller DV-PROXY1 with pin marking shown in Picture 2. The purpose of the connector pins and indicators is given shown in table 1.

Pic. 2. View of the DV-PROXY1 controller

Table 1. DV-PROXY1 Controller Pin Assignment

contact	Pin assignment
one	+12V. Power input
2	GND - Power input
3	Line D_0, interface WIEGAND 26 reader №2
four	Line D_1, interface WIEGAND 26 reader №2
5	Line D_0, interface WIEGAND 26 reader №2
6	Line D_1, interface WIEGAND 26 reader №2
7	Power LEDs
eight	A - RS 485 interface line
9	B - RS 485 interface line

### 4.3. Operating modes.

The DV-PROXY1 controller can operate in 2 functional modes:

- test mode and address writing;
- Workas part of the DIVISION system.

### 4.4. Retesting and writing address.

This mode is used to check the performance of the controller, change its personal address. The following hardware is required to perform a health check:

- direct current source 12V, 1A;
- USB/RS485 interface converter;
  - PROXYmity card reader with WIGAND 26 interface;
- personal computer with OS Windows 7 and above;
- DIVISION Controllers testing and addressing program.
  - connecting wires.

In the mode of testing and writing the address, the controller is connected to a personal computer, card readers and power supply according to the diagram in Figure 3.

If you only need to write the address to the controller, then the reader does not need to be connected.

The DIVISION Controllers program is installed on a personal computer, which can be downloaded from the Techno Group website: <https://division.business> → Shop → Hardware and software → Software → DIVISION controllers. In the same section of the site is a description of the program. Please read this manual before using DIVISION Controllers.

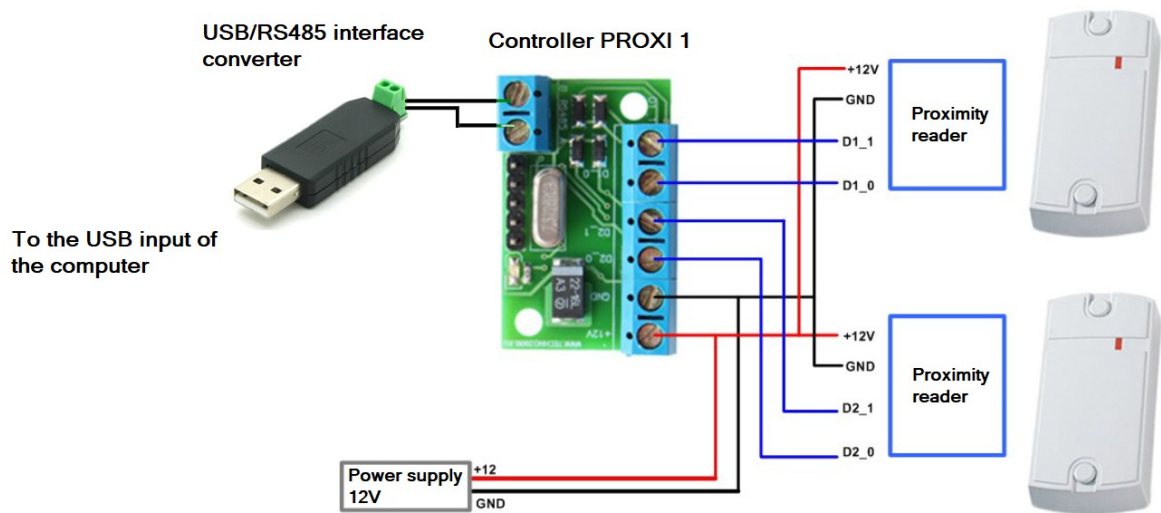


Fig. 3. DV-PROXY1 controller connection diagram

To test the DV-PROXY1 controller, do the following:

1. Connect the controller to a personal computer via USB/RS485 interface converter;
2. Apply 12V power supply to the controller.
3. Launch the DIVISION Controllers program on the computer.

In the "COM Port" window, select the required port (to which the interface converter is connected) or use the "Auto Search" menu item and click the "Device Search" button. A serviceable and correctly connected device responds immediately, if there is no answer, check the correct connection of lines A and B of the RS-485 interface.

When delivered by the manufacturer, the address 01 is set on the device. To write a new personal address, you need to click the "Address to be set" button in the program, select the address to be set in the drop-down menu, for example 9, click "Write address". After writing the address, you need to search for the device again, make sure that the device responds to the newly set personal address. Any address from 1 to 235 is allowed.

To check the controller as part of the reader, it is necessary to take several Em-Marine cards, bring them one by one to the reader, while program window DIVISION Controllers card number and reader number should appear.

#### 4.5. Operating mode as part of the DIVISION system

Controller DV-PROXY1 works only as part of the DIVISION system. When presenting the card to the reader, the controller reads the card code and stores it in its memory until this information is read by the central controller. The central controller reads the card code from memory to controller DV-PROXY1 and performs access control using a separate actuating device (relay unit) in accordance with the operation logic specified in the DIVISION system configuration.

#### 5. Controller operation DV-PROXY1.

For Operation of the DV-PROXY1 controller requires the following equipment:

- DC source 12V, 0.5A;
- USB/RS485 interface converter;
- PROXYmity card reader EM-Marine with WIGAND 26 interface;
- several pieces ( ) of cards or key fobs of the Em-Marine type;
- connecting wires.

The connection diagram of the DV-PROXY1 controller in the DIVISION system is shown in Figure 4.

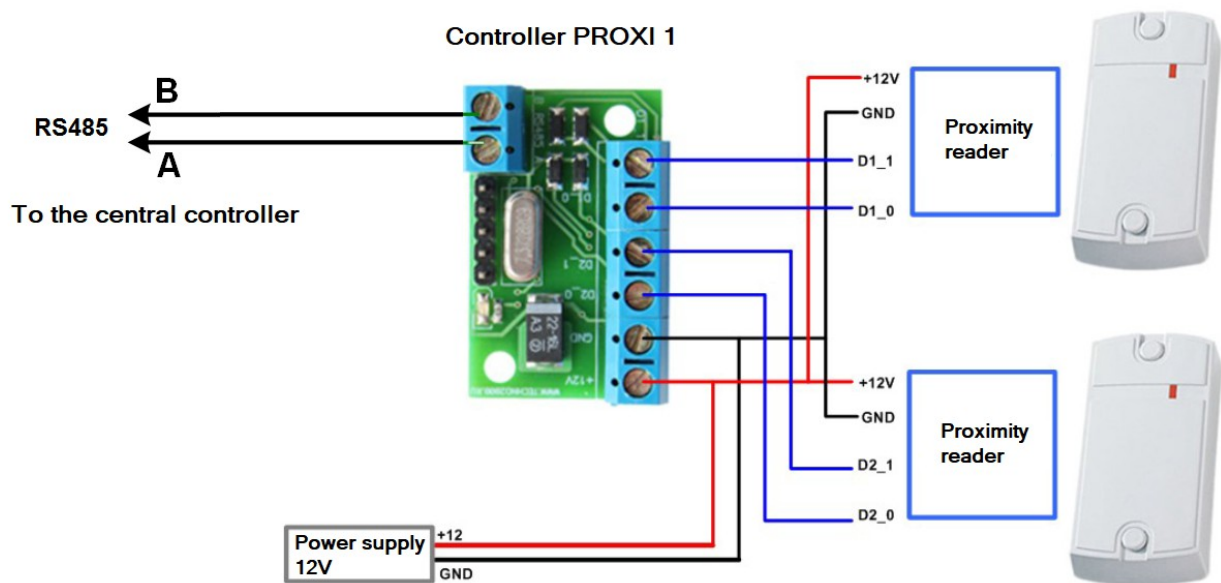


Fig. 4 DV-PROXY1 controller connection diagram in DIVISION system

#### 6. Maintenance.

Maintenance of the DV-PROXY1 controller is carried out according to a preventive

maintenance system. Maintenance work includes:

- checking the external state of the device;
- performance check according to this manual;
- checking the reliability of the module fastening, the condition of external mounting wires and contact connections.

## **7. Storage.**

Module storage temperature range from -40°C to +50°C.

When storing the module in rooms with a negative temperature range, it is necessary to keep the device at room temperature (+20°C).

The module storage rooms must be free of acid vapors, alkalis, corrosive gases and other harmful impurities that cause corrosion.

## **8. Manufacturer's warranties.**

The manufacturer guarantees the operability of the device provided that the consumer observes the rules of transportation, storage, installation and operation.

Warranty period of operation is 36 months from the date of commissioning, but not more than 40 months from the date of shipment.

When sending the product for repair, an act with a description of a possible malfunction must be attached to it.

## **9. Manufacturer information**

"DVC Technologies",

**E-mail:** info@division.business, **Site:** <https://division.business>

## **10. Certificate of acceptance and packaging.**

ModuleDV-PROXY1 made and accepted in accordance with the current technical documentation, recognized as fit for use and packed by DVC Technologies .

Responsible for receiving and packaging

OTK

MP

\_\_\_\_\_

FULL NAME. year, day, month