

U-Prox WRS485 Interface Converter

Datasheet

Purpose

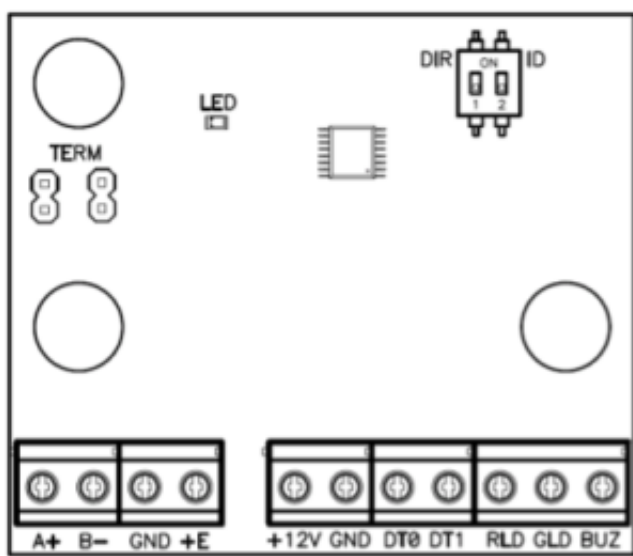
This device is designed to convert the Wiegand interface to RS485 and vice versa. By using two converters, it is possible to arrange for a remote reader installation over a significant distance (up to 1000 m).

The device is used in access control systems that employ the following interfaces: Wiegand 26-bit, Wiegand 32-bit, Wiegand 34-bit, Wiegand 37-bit, Wiegand 40-bit, Wiegand 42-bit, and the standard Wiegand with automatic selection. It supports the following Wiegand keyboard code transmission modes: packet, standard per-character, and per-character set DORADO.

Key Technical Data

- Supply Voltage: 9V ...12V $\pm 5\%$
- Nominal Current Consumption: 40 mA
- Overall Dimensions: 67×67×25 mm

Included in the Package



- Interface Converter – 1 pc.
- Datasheet – 1 pc.

Connection

The RS485 interface is connected to the corresponding terminal blocks of the devices. The length of the interface bus without additional equipment can be up to 1000 meters.

Attention!!! When connecting the device as the last unit on the RS-485 bus, it is mandatory to install an end load by setting the TERM jumpers.

The Wiegand interface is connected to the corresponding contacts of the reader or controller. The purpose of the contacts is shown in the table below (+V – external +12 V source):

Controller Contact	Converter Contact	Reader Cable Color	Wiegand	
Do	DT0	Green	Data 0	
D1	DT1	White	Data 1	
+V	+12V	Red	+V	
GND	GND	Black	GND	
RD	RLD	Brown	Red Led	
GD	GLD	Orange	Green Led	
BZ	BUZ	Blue	Beep	

Reader Output

- Install one of the converters in “master” mode by switching DIR (No.1) to the “ON” position and connect it to the access controller’s reader port;
- Install the second converter in “slave” mode by switching DIR (No.1) to the “OFF” position and connect a reader to it;
- The ID (No.2) switches on both converters must be set to the same position – either “ON” or “OFF”;
- Set the TERM jumpers on the converters.

For long RS485 bus lengths, a significant voltage drop in the power circuit may occur. In this case, increase the conductor cross-section or install a separate power supply directly near the remote converter.

Warranty Obligations

The manufacturer guarantees that the U-Prox WRS485 interface converter complies with the technical conditions TU Y 31.16-14357131-017:2006 for the duration of the storage warranty and operational warranty, provided that the transportation, storage, and operating conditions specified in the TU are met.

Storage warranty period – 6 months from the date of manufacture. Operational warranty period – 18 months from the date of sale.

If a defect caused by the manufacturer is detected, the remedy will be provided by the factory within 10 days of receiving notification.

If commissioning or repair work is carried out by an organization not authorized by the manufacturer, the consumer forfeits warranty service.

For warranty service inquiries, please contact:

Acceptance Certificate

The U-Prox WRS485 interface converter, factory number, complies with the technical conditions TU Y 31.16-14357131-017:2006 and is declared fit for operation.

Release Date: “ _____ ” _____ 20 _____

OQC Stamp

Sale Date: “ _____ ” _____ 20 _____

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