



Technical data

Dimensions:

157 × 86 × 57.8 (width × height
× installation depth in mm)

Voltage supply:

DC 12V ± 10%

Power consumption:

approx. DC 18W

Operation temperature:

-20°C ...+50°C

Protection class:

IP 20

Description

- 32 bit processor RISC Cortex M3, 120MHz
- 2x analog sensors (0-6600 Ohm)
- 4x IR output (external)
- 2x Wiegand26 interface
- 2x binary input
- 2x RS485 interface
- 1x 1-Wire interface
- Modbus interface useable as a communication interface

Controller Modbus GS_WR22 is intended for construction of the access control systems. The controller communicates with the automated workplace of the operator by means of data transfer interface RS-485. Communication with the controller is connected via the Protocol Modbus. Controller has two inputs for connecting the Wiegand readers.

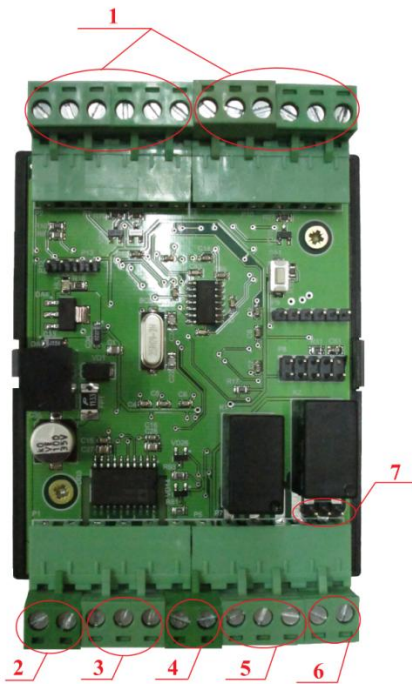
Final Executive equipment can be all sorts of access controll devices, such as turnstiles, barriers, doors, equipped with electromagnetic locks and other. Devices of reading and transmission codes for electronic cards and tags can be any readers working on the Wiegand interface.

Controller has on-board power connector, pins to connect devices through interfaces RS-485 (two), Wiegand (two), discrete inputs and outputs.

Communication with the controller is realized by open communication Protocol Modbus, based on "client-server" architecture, using the following registers:

Destination	Address	Register type	Register size
Wiegand26 (channel 1)	40000	HOLDING_REGISTERS	uInt32
Wiegand26 (channel 2)	40005	HOLDING_REGISTERS	uInt32
relay (channel 1)	40010	HOLDING_REGISTERS	uInt8
relay (channel 2)	40011	HOLDING_REGISTERS	uInt8
indicator light (channel 1)	40012	HOLDING_REGISTERS	uInt8
Audio level meter (channel 2)	40013	HOLDING_REGISTERS	uInt8
light indicator (channel 1)	40014	HOLDING_REGISTERS	uInt8
Audio level meter (channel 2)	40015	HOLDING_REGISTERS	uInt8
Analog input (channel 1)	40016	HOLDING_REGISTERS	uInt8
Analog input (channel 2)	40017	HOLDING_REGISTERS	uInt8
The device address	49001	HOLDING_REGISTERS	uInt8
Data exchange rate	49002	HOLDING_REGISTERS	uInt8
Parity	49003	HOLDING_REGISTERS	uInt8
Stop bits	49004	HOLDING_REGISTERS	uInt8

Scheme



1. Two inputs for connecting the reader Wiegand type. Switching terminals from left to right: 1) DC+(9-16V); 2) GND; 3) D0(Wiegand); 4) D1(Wiegand); 5) E(LED); 6) Zumm(Beeper);
2. External power controller;
3. Data interface RS485;
4. Analog inputs (sensors) to determine equipment status;
5. The first relay output, switching terminals from left to right: 1) General contact; 2) Normally open contact; 3) Normally closed contact;
6. The second relay output, switching terminals from left to right: 1) General contact; 2) Normally