The RFID reader **1W-H3-05** is dedicated for contactless reading of identification data from passive transponders (cards, tags, etc.) which work in UNIQUE system. The device contains a bicolour LED diode.

After the positive verification of parity bits, collected data (manufacturer's code and serial number) are sent with 1-Wire interface emulating Maxim (Dallas) DS1990A iButton.

control sum	constant value	producer's code	serial no.	code DS1990A
CRC	0x00	1 byte	4 bytes	0x01

MSB LSB

The bicolour LED diode is powered by inner stabilizer through a build-in resistors. The diode starts to shine after connecting a proper cathode wire to the minus of a power supply.

Technical data

1. Power supply voltage 6,5V-30V DC
2. Receiver current 12mA (without LED)
3. Green LED current 10mA
4. Red LED current 10mA
5. Frequency of transponders 125 kHz
6. Data coding Manchester, 64 cycles per bit
7. Reading distance ~ 4cm
8. Read-out frequency 2/s
9. 1-Wire command support 0x33 (0x0F) - Read ROM
   0xF0 - Search ROM
10. Colour scheme
    - Yellow power supply +
    - Gray power supply –
    - White 1-wire
    - Green green LED cathode
    - Brown red LED cathode