The RFID reader **1W-H3-04P** is dedicated for contactless reading of identification data from passive transponders (cards, tags, etc.) which work in UNIQUE system. The device contains a 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 LED diode is powered by inner stabilizer through a build-in resistor. The diode starts to shine after connecting a 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. Red LED current   10mA
4. Frequency of transponders   125 kHz
5. Data coding   Manchester, 64 cycles per bit
6. Reading distance   ~ 4cm
7. Read-out frequency   2/s
8. 1-Wire command support   0x33 (0x0F) - Read ROM
                                                     0xF0 - Search ROM
9. Colour scheme
   - Red   power supply +
   - Black   power supply –
   - White   1-wire
   - Green   LED cathode