The RFID reader **1W-H3-04KP** is dedicated for contactless reading of identification data from passive transponders (cards, tags, etc.) which work in UNIQUE system. The device contains an 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 with series resistor 330R has cathodes connected with minus of a power supply wire. The diode activity occurs after connecting LED anode to the plus, for example the power supply.

Technical data:

1. Supply voltage   6,5V-30V DC
2. Receiver current   12mA (without LED)
3. Red LED max current   10mA
4. Transponder frequency   125kHz
5. Data coding   Manchester, 64 cycles per bit
6. Reading distance   ~ 4cm
7. Reading 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 anode