

The RFID reader **1W-H3-05K WR** 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 with series resistors 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. Green LED max current 10mA
4. Red LED max current 10mA
5. Transponder frequency 125kHz
6. Data coding Manchester, 64 cycles per bit
7. Reading distance ~ 4cm
8. Reading 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 anode
  - Brown red LED anode