

The RFID reader **1W-H3-05 M12** 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

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|------------------------------|---|
| 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 |