

The RFID reader **1W-H3-03** is dedicated for contactless reading of identification data from passive transponders (cards, tags, etc.) which work in UNIQUE system.

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 DS1990 |
|-------------|----------------|-----------------|------------|-------------|
| CRC | 0x00 | 1 byte | 4 bytes | 0x01 |
| MSB | | | | LSB |

Technical data:

- | | |
|-------------------------------------|---|
| 1. Power supply voltage | 6,5V-30V DC |
| 2. Receiver current | 12mA |
| 3. Transponder frequency | 125 kHz |
| 4. Data code | Manchester, 64 cycles per bit |
| 5. Reading distance | ~ 4cm |
| 6. Transponder's read-out frequency | 2/s |
| 7. 1-Wire command support | 0x33 (0x0F) - Read ROM 0xF0 - Search ROM |
| 8. Colour scheme: | |
| • Brown | power supply+ |
| • Green | power supply – |
| • White | 1-wire |