

Reader **1W-H0-05** is a reader dedicated for contactless read-out of identification data (UID) from transponders (cards, keyrings, etc.) compatible with ISO/IEC14443-3-A (for example MIFARE CARDS) . The device has a built-in bicolour LED for multipurpose adaptation.

The read-out UID data are sent through 1-wire bus, emulating Maxim (Dallas) 1990A iButton. In case of transponders with UID longer than 4 bytes, the oldest 2 bytes UID[4] and UID[5] are sent as 0x00 (zero). Whereas for UID with length of 7 or 10 bytes are truncated to the 6 least significant UID bytes.

control sum	UID			code DS1990A
CRC	UID[5]	...	UID[0]	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 ground of a power supply.

Technical data:

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|----|-------------------------------------|--|
| 1. | Supply voltages | 5V-16V DC |
| 2. | Average reciver current | 15mA (without LED) |
| 3. | Maximum reciver current | 45mA (without LED) |
| 4. | Green LED current | 7mA |
| 5. | Red LED current | 7mA |
| 6. | Frequency | 13.56 MHz |
| 7. | Transponder type | ISO/IEC14443-3-A |
| 8. | Reading distance | ~ 4cm |
| 9. | Read-out frequency of a transponder | 6/s for identification
2/s if transponder remains within the reading range. |

10. Colour scheme:

- yellow power supply (+)
- gray power supply (-)
- white 1-Wire
- green cathode LED green
- brown cathode LED red