

Operating Instructions

RFID-RDR-1-xxx

R. STAHL HMI Systems GmbH Im Gewerbegebiet Pesch 14 50767 Köln

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1 Function RFID

The RFID-RDR-1-xxx chipcard readers are equipment for installation in regular industrial environments. They can be connected to standard RS-232 interfaces. The chipcard readers are supplied with power via a connection to an external 12 VDC power supply.

The RFID chipcard readers are proximity readers. Data is read with appropriate cards and passed on to any system. This data transfer requires additional software.

The RFIDi chipcard readers can be mounted inside a front panel or a desktop housing.

2 Marking

Manufacturer	R. STAHL HMI Systems GmbH
Type code	RFID-RDR-1-xxx

3 **Power supply**

Nominal values: Voltage: 12 VDC +/-10% Current: 200 mA

4 Ambient temperature range

The temperature range is -30 ... +60°C.

5 Type of protection

- Front IP 66
- Rear IP 20

6 Type code

Type code:



Product type:

Order number	Description
	Version
RFID-RDR-1-MIF-ASC	Mifare reader, sends ASCII value with CR and LF *

* Serial RFID-RDR-1-MIF-ASC Mifare reader, sending card information to the connected system in the form of an ASCII value with CR and LF.

7 Assembly and disassembly

7.1 Views

Type with card slot:





7.2 Mechanical dimensions

Dimensions in mm

7.2.1 Overview

Chipcard reader	Front plate (hxw)	Cut-out (hxw)	Hole pattern	Material thickness
	185 x 90	152 x 60 (±1)	see diagram	up to 6
RFID-RDR-1-xxx	Depth of cut-out (depth)		Design front (height)	
		50	9 with slot 3 without slot	

7.2.2 Dimensional drawing

Front view:



е

f

С

d

а

=

=

=

=

=

Lateral view:



7.3 Installation instructions

The RFID chipcard reader is intended for installation in an appropriate desk housing or control panel. It may be installed in any position.

If the RFID chipcard reader has <u>NOT</u> been mounted by the manufacturer, a sufficiently large cut-out and a hole pattern for mounting the chipcard reader must be provided.

- Make a cut-out with the following dimensions:
 152 (±1) mm (height) x 60 (±1) mm (width).
- Drill 10 holes of a diameter of 3.5 mm according to the hole pattern.
- Mount the chipcard reader inside the cut-out and use the self-locking nuts (10x M3) provided to affix the chipcard reader.

Optimum sealing:

- Tighten the nuts lightly.
- Check the position of the chipcard reader, ensuring above all that it is correctly positioned.
- Now fully tighten the nuts.
- Connect the reader's cable according to the connection diagram.

Earth:

An equipotential bonding connection (earthing screw) is located on the back of the chipcard reader housing.

A wire cross section of 4 mm² is recommended for earthing the device.

8 Operation

8.1 General information

When operating the devices, particular care shall be taken that:

- The chipcard reader has been properly installed according to instructions,
- the chipcard reader is not damaged,
- all screws are tightened fast,
- the cable is connected properly.

8.2 Connections RFID-RDR-1-MIF

If the chipcard reader is mounted ex factory, it is fully wired and ready to run. If the card reader is mounted at the customer's, the connection must be made according to the following diagram.

8.2.1 Connection diagram

A chipcard reader requires a power supply of 12 VDC.

RFID-RDR-1-MIF-ASC reader



9 Maintenance, service

The chipcard readers contain no replaceable parts. It is therefore not necessary to carry out regular adjustments.

Maintenance should focus on the following:

- Seal wear
- Damage to the front plate
- All cables and lines are properly connected and undamaged
- Housing damage

10 Troubleshooting

The RFID chipcard readers cannot be repaired.

11 Disposal

Disposal of packaging and used parts is subject to regulations valid in whichever country the device has been installed.

The disposal of devices sold after August 13th, 2005, and installed in countries under the jurisdiction of the EU is governed by directive 2002/96/EC on waste electrical and electronic equipment (WEEE). Under this directive, the devices are listed in category 9 (monitoring and control instruments).

We shall take back our devices according to our General Terms and Conditions.

11.1.1 China ROHS labelling

According to new Chinese legislation in force since 01.03.2007, all devices containing hazardous substances must be labeled accordingly.

For our chipcard readers, the following conditions apply:

Part	Toxic or hazardous substances and elements					
Name	Lead	Mercury	Cadmium	Hexa- valent Chromi um	Poly- brominated Biphenyls	Poly- brominated diphenyl ethers
	(Pb)	(Hg)	(Cd)	(Cr (VI))	(PBB)	(PBDE)
Housing	0	0	0	0	0	0
Display	0	0	0	0	0	0
all PCBs	X	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0

Names and contents of toxic or hazardous substances or elements:

O Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirements in SJ/T11363-2006.

X Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials for this part is below the limit requirements in SJ/T11363-2006.

12 Release notes

Version 1.00.00

• Original version of the operating instructions

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