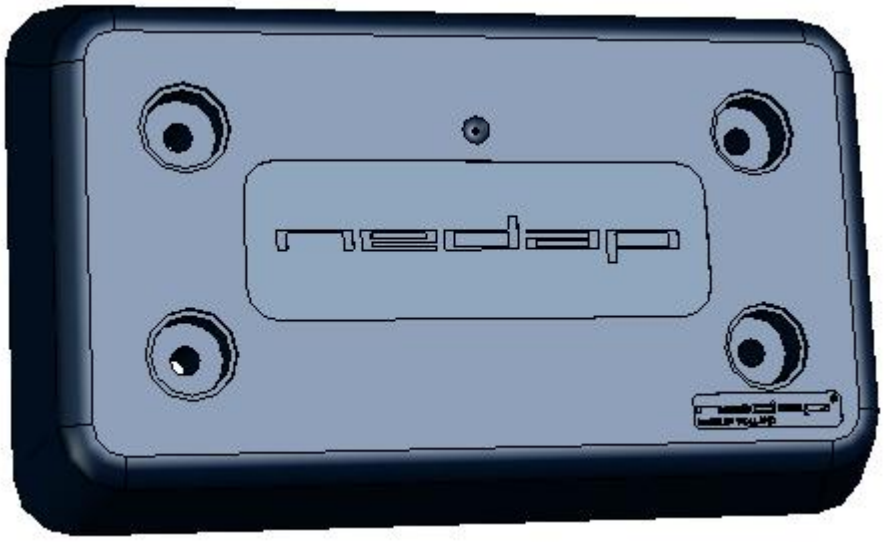
Service manual

For installation, operation and service

ISO Reader Solid (CAN)



VP1101

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nedap®

Nedap Agri - P.O. Box 104 - 7140 AC Groenlo - The Netherlands - T (+31) 544 471 444
F (+31) 544 466 839 - info@nedap-agri.com - www.nedap-agri.com

Version overview

Manual version 1.0 / 3-2009
First release

VP1101 ISO Reader Solid CAN

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Preface

This manual is part of the service documentation for Nedap Velos. Reference is also made to other manuals that are part of the Nedap Velos documentation. For an overview of available Nedap Velos manuals see the manual “Nedap Velos General Description”, or visit the Nedap Agri website www.nedap-agri.com.

1 Introduction

The Velos VP1001 is a Velos component that is used to identify RFID tags on animals. The VP1101 is installed close to the spot where identification is required, for example on the animal feeder.

2 Description and functioning

A VP1101 is connected to the CAN-bus and can identify tags on ISO frequency 134.2 kHz.
There are two types, FDX/HDX or FDX only.

3 Safety

Installation and service only by trained personnel.
Always turn off the main power when working on the electrical installation.

Compliance statement (part 15.19)
This device complies with part 15 of the FCC Rules and to RSS210 of Industry Canada. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.
Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

Warning (part 15.21)
Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

4 Installation

4.1 Mounting

See the relevant equipment manual relating to where the VP1101 is to be installed. (e.g. feeder).

4.2 Connections

Details VP1101 wiring

Brown	**+**	Input voltage 25 VDC, +20% -20%
White	**-**	Minus
Green	**C_H**	CAN high
Yellow	**C_L**	CAN low
Shield	⏚	Shielding of CAN-bus cable
Grey	**~**	Synchronization (antenna)
Pink	**~**	Synchronization (antenna)

5 Adjustments

A VP1101 is pre-tuned and ready for use. No antenna adjustments required because of automatic fine tuning.

6 Trouble shooting

Errors / malfunctioning are indicated at the controlling computer.

7 Maintenance, cleaning and disposal

Maintenance
No regular maintenance required.

Software update
By the CAN bus there is a possibility to update the software.

Cleaning
A VP1101 can be cleaned with water and sponge. Avoid (aggressive) cleaning liquids.

Disposal
Discard according to the regulations prevailing at the time of disposal

Appendix A: Specifications

Specifications VP 1101	
Dimensions	2850 x 1700 x 45 mm LxWxH
CAN	CAN-bus communication 125 kBit
Power	Input voltage 25 VDC, +20% -20% Power consumption 200 mA with antenna switched on Protected against reverse connection power supply
Software	Downloadable by the CAN network
Antennas	Internal fixed antenna
Detection distance	Depending on used tags
Synchronization	Synchronization according to ISO 11785, ISO 24631-7
Environment	Temperature: Operating: -10 – 50 °C, Storage: -25 – 70 °C Relative humidity: 10 – 93% non condensing
IP class	IP 65.

Always use a NEDAP power supply.
The Nedap guarantee-regulations are only valid when is installed as indicated in this manual.
Install data cables at a safe distance from (high) powered cables

More information
For more detailed information contact your local Nedap supplier or check the internet site.

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