



DOS-Drive CAN

Installation Manual

Liability remarks

This installation manual and other documents are part of the product and contain important information for its safe and efficient use. To maintain the high quality level the product is continuously being developed, which may result in the product's technical details changing at short notice. As a result, the contents of this documentation may differ from the technical specifications of the product. No claims against the manufacturer can therefore be derived from the contents of the product documentation.

CSM GmbH is not liable for technical or editorial errors or missing information.

CSM GmbH assumes no liability for damage resulting from improper use of the product and/or non-observance of the product documentation, in particular the safety instructions.

General instructions

NOTE!



The latest information concerning the status of the software can be found on the **CSM website**.

Please read this document carefully **before installing** the DOS-Drive CAN hardware and software and follow the operating instructions which it contains.

The equipment should not be used without prior familiarisation with the installation manual. The equipment should not be used beyond the limits which are specified in the technical data.

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Hardware installation

CAUTION!



EMC hints have to be regarded, see chapter "EMC" below.

1. Use the connector plus cable shipped with DOS-Drive CAN device for power supply.
2. **Make sure that polarity and voltage range of power supply are correct** before connecting DOS-Drive CAN to the power supply (refer to chapter "Power Supply 8...32 V" below).
3. Connect the CAN interface of DOS-Drive CAN (DSUB9 male) to the CAN bus of the host system. Please note the chapter "CAN connector" below for more information.
4. To configure the DOS-Drive CAN device connect the serial interface of DOS-Drive CAN (DSUB9 female) with the host system. If your host system is a PC, you may use the 1:1 cable shipped with DOS-Drive CAN device. Refer to chapter "Serial connector".

WARNING!



You can connect the interfaces of DOS-Drive CAN (CAN, RS233) either when switched off or during operation. Be sure to consider the specifications of all other systems, especially concerning the CAN bus.

5. Insert an ATA Flash Card into the device. The right red LED flashes after inserting the card.
6. The device is now ready for operation.

How to open the device with snap lid:

The hinged cover of the device can be opened as follows:

- ☞ Press against the hinge lightly from below (Fig. 1-1).
 - ⇒ The lock is released, the hinged cover opens.
- ☞ Open the hinged cover fully as shown in Fig. 1-2.

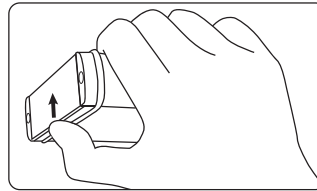


Fig. 1-1: Releasing the lock

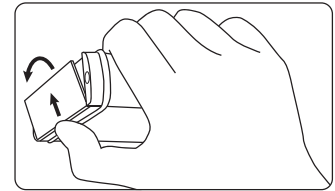
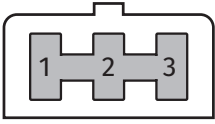


Fig. 1-2: Opening hinged cover

Power Supply 8...32 V

DOS-Drive CAN has a 3-pin connector for power supply:

Picture	Pin	Name	Signal
 Front of supply connector	1	GND	Ground
	2	PowerOn	control signal to switch ON/OFF
	3	PowerSupply	8 to 32 V DC supply

NOTE!



If no control signal "PowerOn" is available or if you do not want to switch the device on/off with this control signal, then connect both "PowerOn" and "PowerSupply" to your power supply.

WARNING!



The power supply inputs are protected against reversed polarity. But shield, signal GND and case GND are connected internally to the GND of the power supply. So, never connect these terminals to different electric potentials.

Battery Replacement

DOS-Drive CAN has a **built-in lithium (Li) battery**. You are not intended to remove or replace this battery. When the battery is empty return the device to CSM GmbH for service. If the device is to be disposed of, please follow the recycling guidelines of your country and, if necessary, contact a waste disposal company or return the complete device to CSM GmbH.

CAN connector

CAN - D-SUB, 9-pin male

Pin	Name	Signal	Pin	Name	Signal
1	—	n.c.	6	GND	signal ground
2	CAN L	CAN Low	7	CAN H	CAN High
3	GND	signal ground	8	—	n.c.
4	—	n.c.	9	—	n.c.
5	GND	signal ground			

SERIAL connector

RS232 - D-SUB, 9-pin female

Pin	Name	Signal	Pin	Name	Signal
1	—	n.c.	6	—	n.c.
2	TXD	transmit data (output of DOS-Drive CAN)	7	CTS	CTS input (input of DOS-Drive CAN)
3	RXD	receive data (input of DOS-Drive CAN)	8	RTS	RTS output (output of DOS-Drive CAN)
4	—	n.c.	9	—	n.c.
5	GND	signal ground			

EMC

	CSM GmbH states that the DOS-Drive CAN is in compliance with the requirements of the European EMC-Directive 2014/30/EU . See connection, installation and operation hints below.
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Connection and installation hints:

- ▶ Shielded cables must be used for the signal line outside of a shielded cabinet.
- ▶ To connect to the CAN bus it is recommended to use shielded, twisted-pair cables.

WARNING!



Shield, case and signal ground are connected directly to the negative line (GND) of power supply.

Operation hints

CAUTION!



Avoid electrostatic discharge at the PC-Card while there is data access. Touch the metallic case first prior handling the PC-Card.

Technical data

item	DOS-Drive CAN- External case with front cover
Dimensions (W × H × D)	109 × 35 × 176 mm
Weight	approx. 400 g
Power Supply	8 to 32 V DC low-voltage connector (3-pin)
Power Consumption	approx. 1300 mW (without PC Card) approx. 1300 mW (with PC Card, without access) approx. 1600 mW (with SanDisk ATA Flash Card, access)
CAN interface ¹⁾	CAN 2.0B (active)
	High-Speed CAN (ISO11898-2) max. 1MBit/s (500k, 250k, 125k, 62.5k,...)
CAN connector	D-Sub 9-pol male
RS323 interface	8 data bits, 1 stop bit, no parity baudrate auto-detect max. 115200 Baud (115.2k, 57.6k, 38.4k, 19.2k, 9.6kBaud)
RS232 connector	D-Sub 9-pol female
PC Card Slot	one slot for PC Card Type II at front
PC Card Types	PCMCIA ATA Flash Card (Typ II), ATA CompactFlash Card with Adapter (PCMCIA ATA Typ II)
LED indicators	4 LEDs to indicate different modes of operation: POWER (green) / BUSY (red) / STATUS (green) / ACTIVE (red)
Environment	- 40 °C to + 85 °C (operation and storage) humidity max. 90% (non condensed)
Konformität	CE

1) please ask for: other bitrates, optional second CAN interface

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