



CSM DD-Logger

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 and detailed installation instructions can be found on the **CSM website**.

Please read this document carefully **before installing** the DD-Logger hardware and software.

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!



- ▶ The host system should be switched off before doing the following.
- ▶ Modifications to the connections should only be made with the system switched off.
- ▶ EMC hints have to be regarded, see chapter "EMC" later on.

CAUTION!



Before you start with the hardware installation take care that there is no static electrical discharge on the DD-Logger or on any other system component. Discharge yourself by touching a grounded object before you remove the DD-Logger from its package. Be always sure that you do not touch any component before you are well discharged.

DD-Logger external

1. The power supply to the DD-Logger is provided using one of the supplied adapters (either USB or PS/2 connector).
2. Plug the round barrel connector into the socket provided on the rear of the DD-Logger.
3. Connect the adapter between the PC and the keyboard. The adapter may also be connected to the mouse connector.

NOTE!



If the DD-Logger is to be operated using an external power supply, a suitable power supply must be obtained.

4. Connect the serial interface of DD-Logger (DSUB9) with your computer's serial interface.

DD-Logger 3,5"

1. Switch off your computer and all external peripherals. Unplug your computer from its power source.
2. Remove your computer's cover. Follow the directions provided by your computer manufacturer.
3. Mount the DD-Logger in a free 3,5" bay. Use only the screws delivered with the DD-Logger.

NOTE!



If the DD-Logger is used in a 5¼" bay, you can obtain a suitable mounting frame from CSM GmbH.

4. Plug one of the free power connectors from your computer's power supply into the DCIN plug of the DD-Logger.

NOTE!



In most computers you will find a power connector that is ready for use.

5. Connect the serial interface of DD-Logger with your computer's serial interface.
6. Close the cover.

Power Supply

DD-Logger external - barrel connector


Picture	Pin	Name	Signal
	1 (inner)	+5 V	+5 V DC power supply
	2 (outer)	GND	ground

CAUTION!



Shield, **signal GND** and **case GND** are connected internally to GND of the power supply. Therefore it must be guaranteed that the inner contact of the walkman - plug is sufficiently isolated to prevent a short circuit between +5 V and the case GND.

Power supply 8 to 32 V

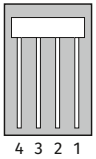
Picture	Pin	Name	Signal
	1	GND	ground
	2	8-32 V	8 to 32 V DC power supply

CAUTION!



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

DD-Logger 3,5", 19", PCB - floppy power connector

Bild	Pin	Name	Signal
	1	+5 V	+5 V DC power supply
	2	GND	ground
	3	GND	ground
	4	- / -	- / -

EMC



CSM GmbH explains, that the **DD-Logger** is in compliance with the requirements of the European EMC-Directive **2014/30/EU**. See connection, installation and operation hints below.

Connection and installation hints for operation:

- ▶ Shielded cables must be used for the signal line outside of a shielded cabinet.
- ▶ When leading your signal line into a shielded cabinet, make a electric contact with a large surface area from cable shield to the cabinet shield directly at the opening of the cabinet where you lead your cable in.
- ▶ DD-Logger PCB, DD-Logger 3½" and DD-Logger 19" should be installed in a EMI-shielded cabinet.
- ▶ While installing the device, make a electric contact with a large surface area from the cabinet shield to the case of DD-Logger 3,5", to the front of DD-Logger 19", to the fixing holes of the DD-Logger PCB, respectively.

CAUTION!



Shield, case and fixing holes 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 first the metallic case and afterwards the PC-Card.

Serial interface

CAUTION!



There are several versions of DD-Logger with different interfaces. See product label for identification.

RS232

Pin	Name	Signal	Pin	Name	Signal
1			6		
2	TXD	transmit data (output of DD-Logger)	7	CTS	Mode select (input of DD-Logger, optional)
3	RXD	receive data (input of DD-Logger)	8	RTS	Control out (output of DD-Logger)
4			9		
5	GND	signal ground			

RS422 (product label "RS422/RS485")

Pin	Name	Signal	Pin	Name	Signal
1	GND	signal ground	6		
2	(+5V)	(only for variant "AS1")	7	MODE	Mode select (input of DD-Logger, optional)
3			8	OUT+	transmit data (output of DD-Logger)
4	IN+	receive data (input of DD-Logger)	9	OUT-	transmit data (output of DD-Logger)
5	IN-	receive data (input of DD-Logger)			

RS485 (product label "RS422/RS485")

Pin	Name	Signal	Pin	Name	Signal
1	GND	signal ground	6		
2	(+5V)	(only for variant "AS1")	7	MODE	Mode select (input of DD-Logger, optional)
3			8	BUS+	bus signal (output of DD-Logger)
4	BUS+	bus signal (input of DD-Logger)	9	BUS-	bus signal (output of DD-Logger)
5	BUS-	bus signal (input of DD-Logger)			

CAUTION!



For RS485 bus operation, DD-Logger requires two external connections:

Connect pin 4 and pin 8 (BUS+ signal)

Connect pin 5 and pin 9 (BUS- signal)

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