

Data-Logger

for mobile rail vehicle test application

The CORRail Data-Logger is a lightweight, easy-to-handle data logger for various vehicle testing applications.

- Simple connection to the CORRail R-350 Rail sensor by identical enclosure design
- Sampling rate up to 1 kHz
- High protection class: IP67
- Optimally suited for rail vehicle application
- Power supply for external devices at CAN-port available
- Easy data transfer by exchangeable CF memory card, USB-Stick or LAN connection

Description

The ultra-compact CORRail Data-Logger is a data acquisition and -analysis system, further developed on the base of the proven DAS-2A system.

The CORRail Data-Logger is build up of the basic data acquisition module, the printer module and the control/display unit . The basic module includes LAN/Ethernet, CAN, USB and inputs for brake switch and light barrier.

Operation, parameterization and online data display are carried out via proven control/display unit. System parameter can also be set via connected PC and the provided Config-Tool software.

Application

With its compact design, as well as the high IP67 protection class, the CORRail Data-Logger is best suited for the use with rail vehicles, suitable for dynamic tests like:

- Brake distance measurement
- Acceleration measurement
- Coast-Down Test
- Determination of v_{max}



Technical specifications

Interfaces

CAN (2 independent Bus-Lines)			2.0B
Baudrate	from	kBd	5
	up to	MBd	1
Import of CAN dbc			yes
Power supply of external devices ¹⁾			yes
USB (Full Speed)			2.0
RS-232C			yes
Ethernet/LAN			yes
Display-Interface (CAN)			
to connect control/display units			yes
Light barrier / Brake switch			yes
Port for additional modules			yes

Storage

CF-memory card	GB	max. 8
----------------	----	--------

System specifications

Sampling rate	kHz	up to 1
Power supply ²⁾	V	10 ... 26
Temperature range		
Operation (ambient temperatures)	°C	-20 ... 50
Storage	°C	-20 ... 70
Protection standard		
Logger		IP67
Printer		IP50

¹⁾ Power input connected directly to CAN connectors. Reversible fuse allows max. current of 1.5 A.

²⁾ Incl. reverse-polarity protection. Approx. 800 mA without sensors.

Technical specifications (Continued)

System specifications (Continued from page 1)

Dimensions (LxWxH - without cables)		
Logger, approx.	mm	195x126x95
Display, approx.	mm	190x115x35
Printer, approx.	mm	175x126x70
Weight		
Logger, approx.	grams	1 200
Display, approx.	grams	450
Printer, approx.	grams	800



Fig. 1: Data-Logger with control/display unit and printer

Included accessories

	Type/Art. Nr.
• Data-Logger	HCR16920
• DAS control/display unit	HCR10090
• Printer	HCR17000
• Power cable, 4-pol. Banane, l = 2 m	HCR10398
• Signal cable control/display unit, l = 2 m	HCR16943
• Connection cable CAN, l = 2 m	HCR16944
• Connection cable CAN, l = 0,4 m	HCR16946
• Connection cable CAN, l = 2 m open end	HCR16993
• Connection cable USB, l = 2 m	HCR13947
• CF-memory card	HCR17102
• Multi-card reader	HCR15414
• Suction holder ø90 mm with globe joint	HCR16908
• Hexagon distance bolt M6x7	HCR11666
• CD Corrail Config-Tool	HCR17479
• Transportation case, complete	HCR17198

Optional accessories

	Type/Art. Nr.
• Light barrier incl. suction holder	HCR17472
• Brake switch cable, 5 m open end	HCRKBREM

Order description

• Data-Logger	HCRLOGG
---------------	---------