

Data Logger C 50

www.bosch-motorsport.com



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Invented for life



- ▶ Freely programmable dash logger
- ▶ Light weight synthetic material housing
- ▶ Recording on USB flash drive (opt.)
- ▶ One motorsport connector

The data logger C 50 is a data logging system for motorsport applications. It allows for synchronized acquisition of engine data from the ECU and chassis data from 6 analog and 4 digital wheel speed input channels. Additional input devices can be connected via Ethernet and CAN buses. Recorded data from the internal 2 GB flash memory can be downloaded via high speed Ethernet.

Application

Converters 8 kHz AD converters with digital low pass filter

Configurable math channels

User configurable CAN in/out messages

Sampling rate Max. 1,000 Hz for all channels

Online data compression

Logging rate Max. 100 kB/s

Recording channels Up to 720 per connected device

Logged data download speed Max. 1,000 kB/s

Internal storage capacity 2 GB

FM 40 long range telemetry support, GSM telemetry support

RS232 GPS input

CCP-Master, data acquisition from ECU that support CAN calibration protocol (optional)

Technical Specifications

Mechanical Data

Size 148 x 126 x 16 mm

Weight 300 g

Protection Classification IP54 to DIN 40050, Section 9, Issue 2008

Operating temperature (internal) -20 to 60°C

Max. vibration Vibration profile 1 (see Appendix or www.bosch-motorsport.com)

Electrical Data

Supply voltage 8 to 18 V

Max. power consumption (w/o loads) 14 W at 14 V

Inputs

Analog channels	8
Wheel speed input (Hall-effect)	4
Input range	0 to 5 V
Resolution	12 bit
Switchable pull up resistor	3 k Ω
DF11 inputs	On request

Outputs

Sensor supply 5 V \pm 1 % (350 mA)	1
Sensor supply 10 V \pm 1 % (350 mA)	1

Environment**Software Upgrade 1**

USB-Port unlocked (Rugged USB flash drive 2 GB Bosch File System (BFS) format included, works with Bosch File System (BFS) preformatted USB Flash drive only)	F 02U V01 133-02
Adapter cable to USB-Port (included in Upgrade)	F 02U V01 343-01
Adapter for wiring harness (included in Upgrade)	F 02U 002 996-01

Software Upgrade 2

CCP-Master (ASAP2 file from ECU manufacturer required)	F 02U V01 134-01
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Connectors and Wires

Motorsport connector AS 2-14-35PN at C 50	37 pins
Mating connector AS 6-14-35SN	F02U 000 453-01

Installation Notes

The required software (.pst file) for this device is available in the download area of our homepage www.bosch-motorsport.com.

Communication

CAN interfaces	2
Ethernet 100BaseT	1
Lap trigger input	1

RS232	Telemetry, GPS
Configuration via RaceCon	Over Ethernet or MSA-Box II

Ordering Information**Data Logger C 50**

Order number **F 02U V01 164-04**

Software Options**SW Upgrade 1**

USB-Port unlocked

Order number **F 02U V01 133-02**

SW Upgrade 2

CCP-Master

Order number **F 02U V01 134-01**

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