

# Data Logger C 50

www.bosch-motorsport.com



- ▶ Freely programmable dash logger
- ▶ Light weight synthetic material housing
- ▶ Recording on USB flash drive (opt.)
- ▶ One motorsports 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	
Acquisition rate	Max. 1,000 Hz for all channels
Online data compression	
Data acquisition	Max. 100 kB/s
Recording channels	Max. 720
Upload rate	1,000 kB/s
Internal storage capacity	2 GB

FM 40 long range telemetry support, GSM telemetry support

RS232 GPS input

## Technical Specifications

### Mechanical Data

Size	148 x 126 x 16 mm
Weight	300 g
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	6
Wheel speed input (Hall-effect)	4
Input range	0 to 5 V
Resolution	12 bit

Switchable pull up resistor	3 kΩ
DF11 inputs	On request

### Environment

USB flash drive and connector are available on request

### Software Upgrade 1

CCP-Master (ASAP2 file from ECU manufacturer required)	F 02U V01 134-01
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### Software Upgrade 2

USB-Port unlocked (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 133-01
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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

### 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 164-01**

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