

Data Logger C 50

www.bosch-motorsport.com



- ▶ 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 kOhm |
| DF11 inputs | On request |

Outputs

| | |
|-----------------------------------|---|
| Sensor supply 5 V ± 1 % (350 mA) | 1 |
| Sensor supply 10 V ± 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 |
|--|------------------|

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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