

# Data Logger C 60

www.bosch-motorsport.com



- ▶ Compact and light weight data logger
- ▶ Aluminum housing
- ▶ Recording on USB flash drive (opt.)
- ▶ Two motorsport connectors

The data logger C 60 is a compact and light weight data logging system for motorsport applications. This allows for synchronized acquisition of engine data from the ECU and chassis data from up to 26 analog and 4 digital input channels. Additional input devices can be connected via Ethernet and CAN buses. Recorded data from the 2 GB logger can be downloaded via high speed Ethernet or via wireless connection with the BT 60 burst telemetry system. Software upgrades for the C 60 (field upgradable by entering a key) activate additional recording on USB flash drive, CCP-master and additional input channels.

## 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. 300 kB/s
Recording channels	Up to 720 per connected device
Logged data download speed	Max. 1,000 kB/s

Internal storage capacity	2 GB
3-port network switch	
BT 60 WLAN burst telemetry support	
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	105 x 34.5 x 137.5 mm
Weight	495 g
Protection Classification	IP67 to DIN 40050, Section 9, Issue 2008
Operating temperature (internal)	-20 to 65°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)	10 W at 14 V

**Inputs**

Analog channels	6
Input range	0 to 5 V
Resolution	12 bit
Switchable pull up resistor	3 k $\Omega$

**Outputs**

PWM outputs (low side switch 2 A each)	4
Sensor supply 5 V $\pm$ 1 % (250 mA)	1

**Environment****Software Upgrade 1**

GPS input	
Additional analog channels	20
Rotational channels (input Hall/ inductive)	4
Additional sensor supply 5 V (250 mA each)	3
Sensor supply 10 V (250 mA)	1
Sensor supply 12 V (1 A), non regulated	1
RS232	GPS
	F 02U V00 703-01

**Software Upgrade 2**

CCP-Master (ASAP 2 file from ECU manufacturer required)	F 02U V00 797-01
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**Software Upgrade 3**

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 V00 872-02
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

**Connectors and Wires**

Motorsport connectors double density	2 x 41 pins
Mating connector I AS-DD 6-12-41SN	F 02U 002 216-01
Mating connector II AS-DD 6-12-41SA	F 02U 004 180-01

**Installation Notes**

Inspection services	Recommended after 100 h
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Depending on your experience calibrating Bosch ECU's, we recommend calibration support from Bosch Motorsport.

Please remember that the mating connectors and the programming interface MSA Box II are not included and must be ordered separately.

Not reverse polarity protected on supply or outputs.

**Software**

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

Download data and save configurations before sending device as it will be reset during service.

**Accumulator Service**

Internal accumulator for data preservation and clock included

Recommended service interval: 24 months (inclusive accumulator change)

Send device to Bosch dealer for service.

Charge accumulator for > 6 h after installation (supply with power).

Charge accumulator twice per year for > 6 h (supply with power).

**Communication**

Configuration via RaceCon over Ethernet or MSA-Box II

CAN interfaces	2
Ethernet 100BaseT	3
RS232	Telemetry
Lap trigger input	1

**Ordering Information****Data Logger C 60**

Order number **F 02U V00 875-03**

**Software Options****SW Upgrade 1**

Order number **F 02U V00 703-01**

**SW Upgrade 2**

Order number **F 02U V00 797-01**

### SW Upgrade 3

Order number **F 02U V00 872-02**

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