

Data Logger C 60

www.bosch-motorsport.com



- ▶ Compact and light weight data logger
- ▶ Aluminum housing
- ▶ Recording on USB flash drive (opt.)
- ▶ Two motorsports 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 internal 2 GB flash memory can be downloaded via high speed Ethernet or via wireless connection with the BT 60 burst telemetry system.

As a base system the C 60 is sold as data logger only. The 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 Ω

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
---	------------------

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

Motorsports 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**Software**

The required software (.pst file) for this device is available in the download area of our homepage 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**

Represented by:

Europe:
Bosch Engineering GmbH
Motorsport
Robert-Bosch-Allee 1
74232 Abstatt
Germany
Tel.: +49 7062 911 9101
Fax: +49 7062 911 79104
motorsport@bosch.com
www.bosch-motorsport.de

North America:
Bosch Engineering North America
Motorsport
38000 Hills Tech Drive
Farmington Hills, MI 48331-3417
United States of America
Tel.: +1 248 876 2977
Fax: +1 248 876 7373
motorsport@bosch.com
www.bosch-motorsport.com

Latin America:
Robert Bosch Ltda
Motorsport
Av Juscelino Kubitscheck de
Oliveira 11800
Zip code 81460-900
Curitiba - Parana
Brasilia
Tel.: +55 41 3341 2057
Fax: +55 41 3341 2779

Asia-Pacific:
Bosch Engineering Japan K.K.
Motorsport
18F Queen's Tower C, 2-3-5 Minato Mirai
Nishi-ku, Yokohama-shi
Kanagawa 220-6218
Japan
Tel.: +81 45 650 5610
Fax: +81 45 650 5611
www.bosch-motorsport.jp

Australia, New Zealand and South Africa:
Robert Bosch Pty. Ltd
Motorsport
1555 Centre Road
Clayton, Victoria, 3168
Australia
Tel.: +61 (3) 9541 3901
motor.sport@au.bosch.com