

## Data Logger C 60

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
8 kHz AD converters with digital low pass filter
Configurable math channels
User configurable CAN in/out messages
Up to 1,000 Hz acquisition rate for all channels
2 GB storage capacity
Online data compression
Up to 200 KB/s data acquisition rate
Up to 720 recording channels
1,000 KB/s upload rate
3-port network switch
BT 60 WLAN burst telemetry support
Additional recording on USB Flash drive
CCP-Master, data acquisition from ECU that support CAN calibration protocol

Mechanical Data	
Size	105 x 34.5 x 137.5 (149) mm
Weight	495 g
Dust and splash water proof aluminium housing	
Operating temperature (internal)	-20 ... +65 °C
Max. vibration	Vibration profile 1 (see Appendix or <a href="http://www.bosch-motorsport.com">www.bosch-motorsport.com</a> )

Accessories	
USB Flash drive 2 GB Bosch File System (BFS) preformatted	F 02U V00 867-01
Ruggedized USB Flash drive and connector are available on request.	

Application Hints
Internal battery for data preservation included.
Required service interval 12 months (internal battery is replaced).

Connectors	
Autosport connectors double density	2 x 41 pin
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

Software
Configuration via RaceCon over Ethernet or MSA-Box II

Part Number	
Data Logger C 60	<b>F 02U V00 875-01</b>
Software Upgrade 1	<b>F 02U V00 703-01</b>
additional analog channels and second connector unlocked	
Software Upgrade 2	
CCP-Master (ASAP2 file from ECU manufacturer required)	
	<b>F 02U V00 797-01</b>
Software Upgrade 3	
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)	
	<b>F 02U V00 872-01</b>

C 60 Feature List		
	C 60 Base Logger	Software Upgrade 1
<b>Application</b>		
Storage capacity	2 GB	
BT 60 burst telemetry support	+	
FM 40 long range telemetry support	+	
GPS input		+
<b>Electrical Data</b>		
Supply voltage	8 ... 18 V	
Max. power consumption (w/o loads)	10 W at 14 V	
<b>Inputs</b>		
Analog channels	6	20
Input range	0 ... 5 V	
Resolution	12 bit	
Switchable pull up resistor	3 kΩ	
Rotational channels (Input Hall/Inductive)		4
<b>Outputs</b>		
PWM outputs (low side switch 2 A each)	4	
Sensor supply 5 V (350 mA each)	1	3
Sensor supply 10 V (350 mA each)		1
Sensor supply 12 V (1 A non regulated)		1
<b>Communication interfaces</b>		
CAN interfaces	2	
Ethernet 100BaseT	3	
RS232	Telemetry	GPS
Lap trigger input	1	