

Display DDU 8

www.bosch-motorsport.com



- ▶ Full programmable multi colour display
- ▶ 2 GB dash logger (opt.)
- ▶ Recording on USB flash drive (opt.)
- ▶ Multi colour (RGB) gearshift lights

The display DDU 8 integrates a programmable full colour dash board display with a data logging system for motorsports applications. This allows for synchronized acquisition and visualization of engine data from the ECU and chassis data from up to 24 analog and 4 digital input channels. Additional input devices can be connected via the ethernet and CAN buses. Recorded data from the internal 2 GB logger (opt.) can be downloaded via high-speed ethernet or via wireless connection with the BT 60 burst telemetry system. As a base system the DDU 8 is sold as display only. Software upgrades for the DDU 8 (field upgradable by entering a key) activate data logger functionality, additional recording on USB flash drive, CCP-master and additional input channels.

Application

Display	<ul style="list-style-type: none"> • 5" graphic colour display • Multiple user configurable display pages • 10 multi colour (RGB) gearshift lights
Resolution	800 x 480 high resolution pixel
Supported image file formats	Bmp, gif, jpg, png, tif
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 rate Max. 200 kB/s

Recording channels Max. 720

Upload rate 1,000 kB/s

3-port network switch

CCP-master, data acquisition from ECU that support CAN calibration protocol

Technical Specifications

Mechanical Data

Size	161 x 111 x 31 (49) mm
Weight	675 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

Page/brightness selection	2
Analog channels	4
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/350 mA	1

Software

Configuration via RaceCon over Ethernet or MSA-Box II

Environment

External switch for page selection, 12 steps	B 261 209 658
External switch for brightness adjustment or page selection, 6 steps	B 261 209 659

USB flash drive and connector are available on request.

Software Upgrade 1

Activation of internal data logger	2 GB
Telemetry support	BT 60
Long range telemetry support	FM 40
Interface for telemetry (on yellow connector)	RS232
	F 02U V00 701-01

Software Upgrade 2

Yellow connector unlocked

GPS input

Additional analog channels	20
Additional rotational channels (Input Hall/inductive)	4
Additional sensor supplies 5 V/350 mA	3
Additional sensor supply 10 V/350 mA	1
Additional sensor supply 12 V/1 A non regulated	1

Interface for GPS	RS232
	F 02U V00 702-01

Software Upgrade 3

CCP-Master (ASAP2 file from ECU manufacturer required)	F 02U V00 796-01
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Software Upgrade 4

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 871-02
Adapter cable to USB-Port included	F 02U V01 343-01
Adapter for wiring harness included	F 02U 002 996-01

Connectors and Wires

Motorsport connectors, double density	2 x 41 pins
Mating connector (red) AS DD 6-12-41SN	F 02U 002 216-01
Mating connector (yellow) AS DD 6-12-41SA	F 02U 004 180-01

Installation Notes

Internal battery for data preservation included

Required service interval: 12 months (replacement of internal battery)

Communication

CAN interfaces	2
Ethernet 100BaseT	3
Lap trigger input (on yellow connector, always open)	1

Ordering Information**Display DDU 8**

Order number **F 02U V00 873-05**

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