

Display DDU 8

www.bosch-motorsport.com



- ▶ Programmable full colour dash board 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 motorsport applications. This allows for synchronized acquisition and visualization of engine data from the ECU and chassis data channels. Additional input devices can be connected via 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	
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
3-port network switch	
CCP-Master, data acquisition from ECU that support CAN calibration protocol (optional)	

Technical Specifications

Mechanical Data

Size	161 x 111 x 31 (49) mm
Weight	675 g
Protection Classification	IP67 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	
Page/brightness selection	2
Analog channels	4
Input range	0 to 5 V
Resolution	12 bit
Switchable pull up resistor	3 kΩ
Outputs	
PWM outputs, low side switch 2 A	4
Sensor supply 5 V ± 1 % (350 mA)	1
Software	
Configuration via RaceCon over Ethernet or MSA-Box II	
Environment	
External switch for page selection, 12 steps	B 261 209 658-01
External switch for brightness adjustment or page selection, 6 steps	B 261 209 659-01
Software Upgrade 1	F 02U V00 701-01
Activation of internal data logger	2 GB
Telemetry support	BT 60
Long range telemetry support	FM 40
Interface for telemetry (on yellow connector)	RS232
Software Upgrade 2	F 02U V00 702-01
Yellow connector unlocked	
GPS input	
Additional analog channels	20
Additional rotational channels (Input Hall/inductive)	4
Additional sensor supplies 5 V ± 1 % (350 mA each)	3

Additional sensor supply 10 V ± 1 % (350 mA)	1
Additional sensor supply 12 V (1 A) non regulated	1
Interface for GPS	RS232
Software Upgrade 3	F 02U V00 796-01
CCP-Master (ASAP2 file from ECU manufacturer required)	
Software Upgrade 4	F 02U V00 871-02
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)	
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

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

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**

Software Options

SW Upgrade 1

Activation of internal 2 GB data logger, telemetry support

Order number **F 02U V00 701-01**

SW Upgrade 2

Yellow connector unlocked, GPS input

Order number **F 02U V00 702-01**

SW Upgrade 3

CCP-Master

Order number **F 02U V00 796-01**

SW Upgrade 4

USB-Port unlocked

Order number **F 02U V00 871-02**

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