

Display DDU 7

www.bosch-motorsport.com



- ▶ Programmable full colour dash board display with logger
- ▶ Large trans-reflective multi colour display
- ▶ Light weight synthetic material housing
- ▶ Recording on USB flash drive (opt.)

The display DDU 7 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 flash memory can be downloaded via high speed Ethernet. Data Analysis Software WinDarab is available for free of charge as WinDarab V7 free on our website.

Application

Display	<ul style="list-style-type: none"> • 5,7" graphic colour display • 12 user configurable display pages • 10 multicolor freely configurable (RGB) LEDs
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Resolution	640 x 480 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. 100 kB/s
Recording channels	Up to 720 per connected device
Logged data download speed	Max. 1,000 kB/s
Internal storage capacity	2 GB
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	148 x 126 x 32 mm
Weight	440 g

Protection Classification	IP54 to DIN 40050, Section 9, Issue 2008
Operating temperature internal	-20 to 85°C
Operating temperature Display	-20 to 70°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	6 or 10: see Variations
Wheel speed inputs	Hall-effect, DF11 or no: see Variations
Input range	0 to 5 V
Resolution	12 bit
Switchable pull up resistor	3 kOhm
DF 11 inputs	On request

Outputs

Sensor supply 5 V ± 1 % (350 mA)	1
Sensor supply 10 V ± 1 % (350 mA)	1

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

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 V01 133-02
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

Software Upgrade 2

CCP-Master (ASAP2 file from ECU manufacturer required)	F 02U V01 134-01
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Connectors and Wires

Motorsport connector AS 2-14-35PN at DDU7	37 pins
Mating connector AS 6-14-35SN	F 02U 000 453-01

Installation Notes

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

Communication

CAN interfaces	2
Ethernet 100BaseT	1
Laptrigger input	1
RS232	Telemetry, GPS
Configuration via RaceCon	Over Ethernet or MSA-Box II

Ordering Information

Display DDU 7

6 ana, 4 Hall speed inputs
Order number **F 02U V01 130-04**

Display DDU 7

6 ana, 4 DF11 speed inputs
Order number **F 02U V01 167-03**

Display DDU 7

10 ana, 0 speed inputs
Order number **F 02U V02 010-01**

Software Options




SW Upgrade 1

USB-Port unlocked
Order number **F 02U V01 133-02**

SW Upgrade 2

CCP-Master
Order number **F 02U V01 134-01**

Display DDU 7 Variations

	Display DDU 7	Display DDU 7	Display DDU 7
			
Part Nr.	F 02U V01 130-04	F 02U V01 167-03	F 02U V02 010-01
Analogue inputs	6	6	10
Hall speed inputs	4	0	0
DF11 speed inputs	0	4	0

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