

Display DDU 7

www.bosch-motorsport.com



- ▶ Freely programmable dash 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 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 from 6 analogue 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.

Application

Display	<ul style="list-style-type: none"> • 5,7" graphic colour display • 12 user configurable display pages • 10 multicolor freely configurable (RGB) LEDs
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	
Acquisition rate	up to 1,000 Hz for all channels

Online data compression	
Data acquisition	up to 100 kB/s
Recording channels	up to 720
Upload rate	1,000 kB/s
Internal storage capacity	2 GB
FM 40 long range telemetry support, GSM telemetry support	
RS232 GPS input	

Technical Specifications

Mechanical Data

Size	148 x 126 x 32 mm
Weight	440 g
Dust and splash water proof housing	
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	6
Wheel speed inputs (Hall-effect)	4
Input range	0 to 5 V
Resolution	12 bit
Switchable pull up resistor	3 kOhm
DF 11 inputs	On request

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

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

Software Upgrade 2

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)	F 02U V01 133-01
--	------------------

Connectors and Wires

Motorsport connector, AS 2-14-35PN at DDU7	37 pins
Mating connector, AS 6-14-35SN	F02U 000 453-01

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**Order number **F 02U V01 130-01**

Represented by:

Europe:

Bosch Engineering GmbH
Motorsport
Robert-Bosch-Allee 1
74232 Abstatt
Germany
Tel.: +49 7062 911 79101
Fax: +49 7062 911 79104
motorsport@bosch.com
www.bosch-motorsport.de

North and South America:

Bosch Engineering North America
Motorsports
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

Asia-Pacific:

Bosch Engineering Japan K.K.
Motor Sport Department
3-33-8 Tsuruya-cho, Kanagawa-ku, Yokohama-shi
Kanagawa 221-0835
Japan
Tel.: +81 45 410 1650
Fax: +81 45 410 1651
motorsport@bosch.com
www.bosch-motorsport.com