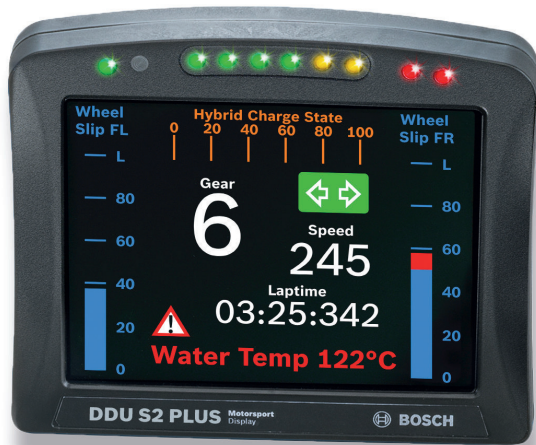


Display DDU S2 PLUS

www.bosch-motorsport.com



- ▶ Freely programmable display
- ▶ Large trans-reflective multi color screen
- ▶ Event triggered change of display page/brightness possible
- ▶ 6 analogue + 2 rev input + 2 sensor supply
- ▶ 2 Ethernet, 2 CAN

The display DDU S2 PLUS integrates a programmable full color TFT screen for motorsport applications. It allows for synchronized acquisition and visualization of analogue and digital input channels as well as input via CAN. The DDU S2 PLUS can be used as stand alone display or in combination with the Bosch ECU family. It can be combined e.g. as copilot display with Bosch DDU 7 or DDU 8.

Additional devices can be connected via Ethernet and CAN buses. CAN in and out is freely configurable.

Application

Display	<ul style="list-style-type: none"> • 5,7" graphic color 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	

Sampling rate	Max. 1,000 Hz for all channels
RS232 GPS input	

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	Configurable
Analog channels	6
Speed inputs (Hall)	2
Input range	0 to 5 V
Resolution	12 bit
Switchable pull up resistor	3 kOhm

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

Connectors and Wires

Motorsport connector AS 2-14-35PN at DDU S2 PLUS	37 pins
Mating connector AS 6-14-35SN	F 02U 000 453-01

Pin Assignment

1	Ethernet 2 RX -
2	Ethernet 2 RX +
3	Terminal 15
4	Ground
5	Unused
6	Unused
7	Unused
8	Unused
9	Ethernet 1 RX -
10	Ethernet 1 TX -
11	REV_IN
12	REV_IN
13	Sensor supply 10 V
14	Sensor supply 5 V
15	ANA_IN_1

16	ANA_IN_2
17	ANA_IN_3
18	ANA_IN_4
19	Ethernet 2 TX -
20	Ethernet 2 TX +
21	RS232 GPS TX
22	Screen Ethernet
23	ANA_IN_5
24	Ethernet 1 RX +
25	Ethernet 1 TX +
26	ANA_IN_6
27	Unused
28	Synchronization
29	CAN1_H
30	CAN1_L
31	RS232 GPS RX
32	Terminal 30
33	Unused
34	Unused
35	CAN2_H
36	CAN2_L
37	Sensor ground

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	2
Sync	1
RS232	1 GPS
Configuration via RaceCon	Over Ethernet or MSA-Box II

Ordering Information

Display DDU S2 PLUS
Order number **F 02U V02 183-01**

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