Display DDU 10

- Features user interface menu
- Features display element design generator
- 10 top-LEDs and 5 side-LEDs on both sides
- Supports GPS laptrigger, pre-dated lap time etc.
- Page change based on events possible

The Display DDU 10 integrates a programmable full colour dashboard display with a data logging system for motorsport applications. Additional input devices can be connected via Ethernet, CAN buses, and RS 232.
Data Analysis Software WinDarab is available free of charge as “WinDarab V7 free” on our website. A basic logging function of 100 channels with recording of 50 ms (4 GB) is always included. The logger can be upgraded to full logging performance (max. 1 ms). In addition, a 2nd logging partition of 4 GB can be activated.
With the DDU 10, a completely new library of graphical elements for the individual design of display pages was implemented and an all-new user interface menu has been developed for the device. A configurable input activates the menu structure and the user can reset for example laptime, fuel consumption and many more, without having to connect a laptop to the DDU. The user can also install own graphics, pictures etc. on the 12 freely configurable display pages. For quick data transfer from the car, e.g. during pit stop, data copy to a USB stick is available as an option.

Application

Display	• 7” graphic color display • 12 user configurable display pages • 20 multicolor freely configurable (RGB) LEDs
Resolution	800 x 480 pixel
Supported image file formats	PNG, BMP, JPG, GIF
Processor	667 MHz Dual Core
Converters	10 kHz 12 bit AD converters with digital low pass filter
Internal power source	Li/Ion capacitor
Configurable math channels	
User configurable CAN in/out messages	Up to 256 IDs (128 in and out)
Online data compression	
Internal logger • 4 GB memory on Partition 1 enabled • 100 channels enabled • 50 ms Sampling rate enabled • FULL_LOG_1 (1,500 channels/1 kHz sampling rate on Partition 1) optional • FULL_LOG_2 (4 GB memory on Partition 2) optional	
Logging rates • Usage of all features: 600 kB/s • Primary logging use case: 800 kB/s • Logging data download rate: up to 4 MB/s	
Ambient light sensor	

Technical Specifications

Mechanical Data

Size	198 x 134 x 35 mm
Weight	875 g
Protection classification	IP67
Operating temperature internal	-20 to 85°C
Max. vibration	Vibration profile 1

Electrical Data

Supply voltage	6 to 18 V
Current consumption (w/o sensor supply)	2 A (at 12 V)

Inputs

4 x analog channels, plus 12 optional
0 to 5 V input range
12 bit resolution
Switchable pull up resistors for all analog inputs
4 x Hall-effect or DF11 wheel speed inputs, switchable

Sensor Supplies and Screens

2 x Sensor supply 5 V ± 1 % (250 mA)
1 x Sensor supply 10 V ± 1 % (250 mA)
1 x Sensor supply U_Bat (250 mA)
4 x Sensor ground

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

LIFE connector on display AS216-35PN	
Mating connector AS616-35SN	F02U.000.466-01
Auxiliary connector on display AS212-35PN	
Mating connector AS612-35SN	F02U.000.443-01

Pin Configuration

LIFE connector

Pin	Name	Comment	Status
1	KL_31		Incl.
2	KL_15		Incl.
3	KL_30		Incl.
4	Rev_In_3	Hall or DF11 switchable	Incl.
5	Rev_In_1	Hall or DF11 switchable	Incl.
6	KL_31		Incl.
7	CAN_2_L	CAN speed selectable	Incl.
8	Ethernet_2_TXP		Incl.
9	Ethernet_2_TXN		Incl.
10	Sens_Power_12V	over current protected	Incl.
11	Rev_In_4	Hall or DF11 switchable	Incl.
12	Rev_In_2	Hall or DF11 switchable	Incl.
13	Laptrigger_In		Incl.
14	CAN_2_H	CAN speed selectable	Incl.

LIFE connector

15	CAN_1_H	CAN speed selectable	Incl.
16	Ethernet_2_RXP		Incl.
17	Sens_Gnd_4	fused	Incl.
18	Sens_Power 5V	over current protected	Incl.
19	ANA_IN_3	3.01 kOhm switchable	Incl.
20	ANA_IN_4	3.01 kOhm switchable	Incl.
21	Time_Sync	connection to Bosch ECU	Incl.
22	CAN_1_L	CAN speed selectable	Incl.
23	Ethernet_screen		Incl.
24	Ethernet_2_RXN		Incl.
25	Sens_Gnd_3	fused	Incl.
26	Sens_Power 5V	over current protected	Incl.
27	ANA_IN_7	3.01 kOhm switchable	Opt. 1*
28	ANA_IN_1	3.01 kOhm switchable	Incl.
29	USB_Device_DP	to Bosch USB stick	Opt. 2*
30	RS232_TX_Telemetry	Transmit Telemetry data	Incl.
31	Ethernet_1_TXP		Incl.
32	Sens_Gnd_2	fused	Incl.
33	Sens_Power_10V	over current protected	Incl.
34	ANA_IN_8	3.01 kOhm switchable	Opt. 1*
35	ANA_IN_10	3.01 kOhm switchable	Opt. 1*
36	USB_Device_Gnd	to Bosch USB stick	Opt. 2*
37	USB_Device_DN	to Bosch USB stick	Opt. 2*
38	RS232_RX_Telemetry	Receive Telemetry data	Incl.
39	Ethernet_1_TXN		Incl.
40	Sens_Gnd_1	fused	Incl.
41	ANA_IN_11	3.01 kOhm switchable	Opt. 1*
42	ANA_IN_9	3.01 kOhm switchable	Opt.
43	RS232_TX_GPS	Transmit GPS data	Incl.
44	ANA_IN_16	3.01 kOhm switchable	Opt. 1*
45	USB_Device_Power	to Bosch USB stick	Opt. 2*
46	Ethernet_1_RXP		Incl.
47	ANA_IN_12	3.01 kOhm switchable	Opt. 1*
48	ANA_IN_6	3.01 kOhm switchable	Opt. 1*
49	ANA_IN_2	3.01 kOhm switchable	Incl.
50	ANA_IN_13	3.01 kOhm switchable	Opt. 1*
51	ANA_IN_15	3.01 kOhm switchable	Opt. 1*
52	Ethernet_1_RXN		Incl.
53	ANA_IN_5	3.01 kOhm switchable	Opt. 1*
54	RS232_RX_GPS	Receive GPS data	Incl.
55	ANA_IN_14	3.01 kOhm switchable	Opt. 1*

Auxiliary connector

Pin	Name	Comment	Status

Auxiliary connector			
1		Unused	
2		Unused	
3		Unused	
4		Unused	
5		Unused	
6		Unused	
7		Unused	
8		Unused	
9	Ethernet_3_TXP		Incl.
10	Ethernet_3_RXP		Incl.
11	Ethernet_3_RXN		Incl.
12	CAN_4_H		Opt. 1*
13		Unused	
14		Unused	
15		Unused	
16		Unused	
17		Unused	
18	Ethernet_screen		Incl.
19	Ethernet_3_TXN		Incl.
20	CAN_4_L		Opt. 1*
21	CAN_3_H		Opt. 1*
22	CAN_3_L		Opt. 1*

Opt. 1*: Requires Software Upgrade IO_EXTENS
Opt. 2*: Requires Software Upgrade DATA_USB

Communication

CAN interfaces	2 standard, plus 2 optional
Ethernet 100BaseT	3
Laptrigger input	1
RS232	Telemetry, GPS
Configuration via RaceCon	Over Ethernet or MSA-Box II
CCP-Master, data acquisition from ECU that support CAN calibration protocol (optional)	

Installation Notes

Maintenance Interval: 220 h or a maximum of two years

This product may contain open source software. Information about license terms and other obligations is given in the manual.

Legal Restrictions

Generally blocked are direct and indirect business involving high risk destinations, including Russia, Belarus, Cuba, Iran, North Korea, Syria, Libya, Afghanistan, and certain non-governmental controlled Ukrainian regions. This list may change as geopolitics evolve.

Upgrades

CCP/XCP_MASTER

Enables CCP/XCP master functionality to request data from foreign devices via CAN/CCP protocol, XCP over Ethernet (UDP) or XCP via CAN.
(ASAP2 file from ECU manufacturer required)

FULL_LOG_1

1,500 channels/1 kHz sampling rate on Partition 1

FULL_LOG_2

4 GB memory on Partition 2

IO_EXTENS

Additional 12 analog inputs and 2 CAN channels

DATA_USB

Data copy to USB flash drive

ABSDIAG

Upgrade Onboard Diagnostic Package ABS M5

- Enables functionality like error memory read and erase, and repair bleed from UIM menu in display

Ordering Information

Display DDU 10
Order number **F02U.V02.659-03**

Rugged USB flash drive
Order number **F02U.V03.534-01**

Connector for USB flash drive on car loom side
Order number **F02U.002.996-01**

Adapter cable to PC USB-Port
Order number **F02U.V01.343-01**

Software Options

CCP/XCP_MASTER
Order number **F02U.V02.213-01**

FULL_LOG_1
Order number **F02U.V02.304-01**

FULL_LOG_2
Order number **F02U.V02.305-01**

IO_EXTENS
Order number **F02U.V02.205-01**

ABSDIAG
Activation per device
Order number **F02U.V03.003-01**

DATA_USB
Order number **F02U.V03.476-01**

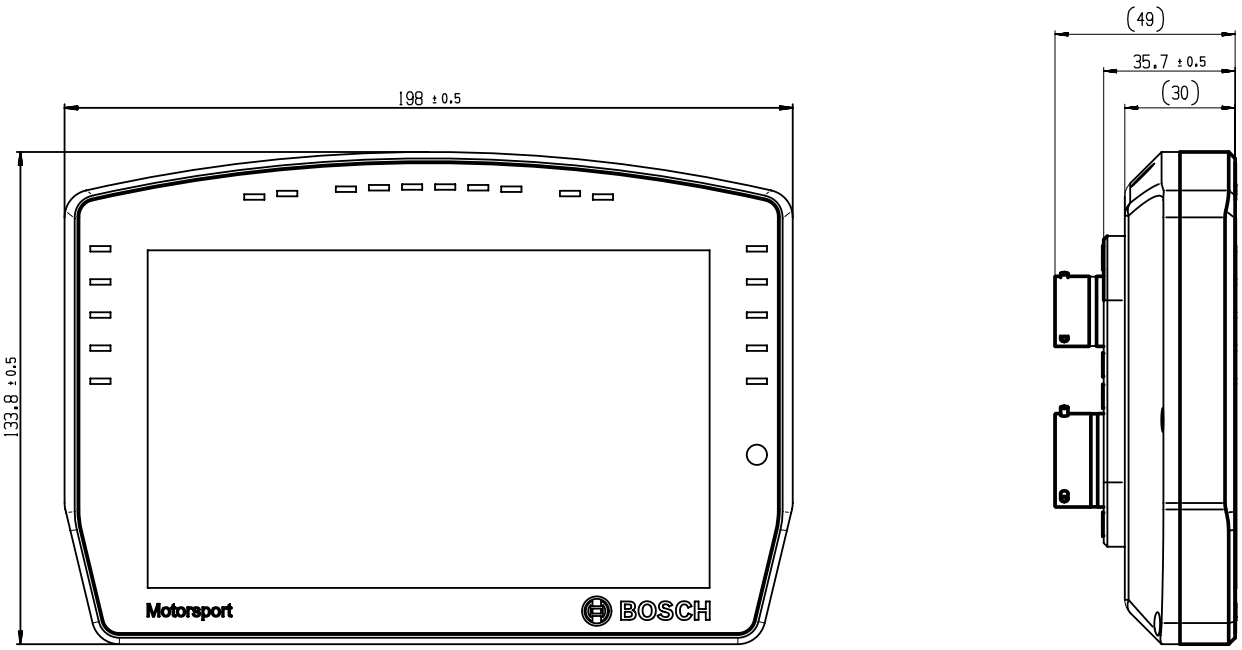
Accessories

CAN Keypad CK-M12
Order number **F02U.V0U.328-04**

Vehicle Loom Basic
Order number **F02U.V02.735-01**

Bench Loom
Order number **F02U.V02.349-01**

Dimensions



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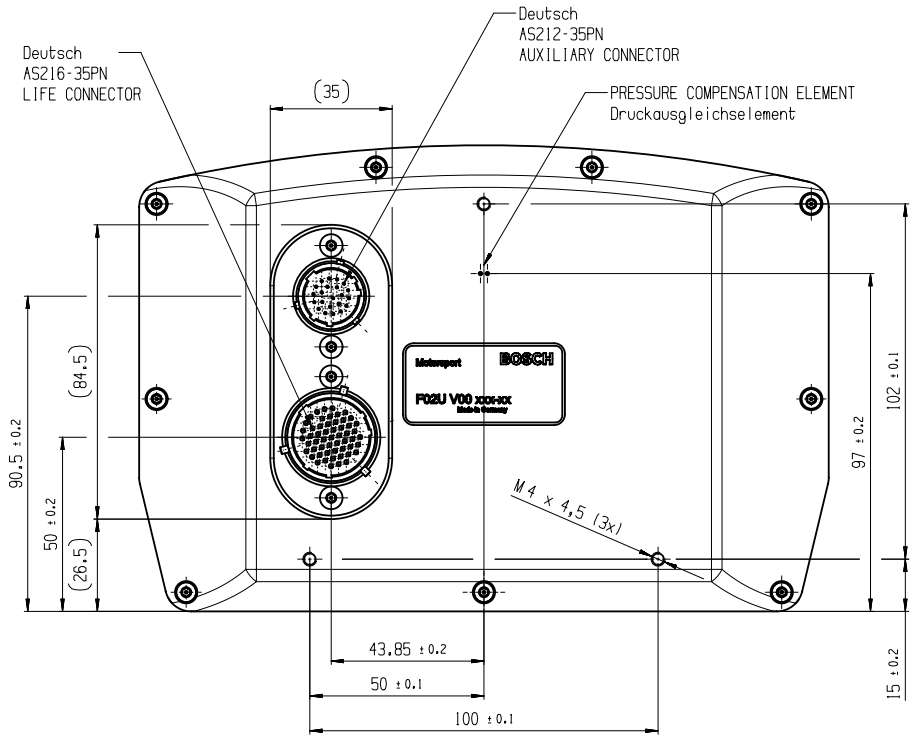

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