

BODAS Display DI5

Universally usable operating and display units in different sizes



In everyday work, the simple and intuitive operation of mobile working machines is getting more and more important. Consequently, there is an increasing demand for operating units with freely programmable functions and visualizations as well as the opportunity of flexible integration in the respective driver's cab.

Bosch Rexroth is expanding the BODAS portfolio with the DI5 display, an operating unit for mobile machines that can be used almost in any application. The robust and high-resolution color display is freely programmable, can be used flexibly in any cab and impresses with its ergonomic design and ease of operation.

CUSTOMER BENEFITS

- Multiple display sizes and high performance
- Operation in harsh conditions
- Flexible use and excellent readability
- Free design of the graphic interface and functions
- Diagnosis, parameterization and flashing of BODAS RC40 control units without additional service tools

FUNCTION AND BENEFITS

Multiple display sizes and high performance

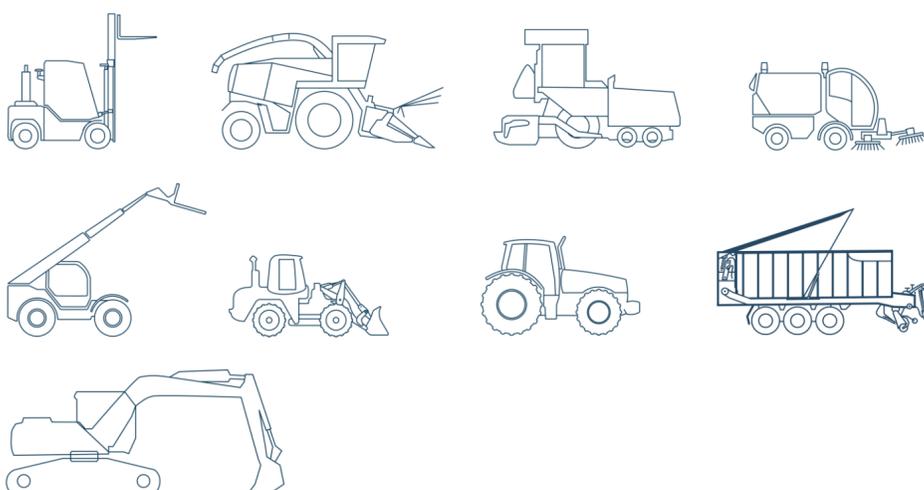
The new DI5 display family provides machine manufacturers with flexible application and integration options: The display is available in three sizes of 5, 7 and 10.1 inches, with multi-touch function and a high resolution of up to 1,280 x 800 pixels. A powerful processor with up to 800 MHz ensures high performance. Due to up to 4 GB flash memory and up to 1GB RAM, there is also sufficient memory available.

Each of the three BODAS Displays DI5 is available in two variants (with or without Codesys) and offers up to four CAN 2.0B, two USB 2.0, RS232 and Automotive Ethernet (T1) as interfaces.

Operation in harsh conditions

Rexroth displays are extremely robust and can therefore be used for a wide range of applications in construction machinery, industrial trucks, agricultural machinery and municipal vehicles - even under harsh conditions thanks to the IP66 protection class and a temperature range of -30°C to +75°C (-22°F to 167°F).

APPLICATIONS



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TECHNICAL DATA

BODAS Display DI5

Display:	5 / 7 / 10,1 Inch multitouch color displays with up to 1.280 x 800 pixels
Processor:	iMX6 Processors solo and dual with 800 MHz
Memory:	4 GB Flash memory and up to 1 GB RAM
Supply:	12V / 24V
Protection class:	IP66
Temperature:	-30 ... +75 °C
Communication:	<ul style="list-style-type: none">• Up to 4 CAN 2.0B (CANopen, J1939)• 2 USB 2.0• RS232• Automotive-Ethernet (T1)• 1 Acoustic speaker, 1 audio-out• Wake-up signal
Visualisation:	<ul style="list-style-type: none">• Adaption brightness with light sensor• Sunlight readable• Anti-fogging display (optical bonding)• Up to 2 video signals on screen• 1 Multicolor-LED
Freely programmable visual Human Machine Interface: Composition of display content, operating element functions and behavior with Codesys, C/C++, and Qt-Linux	
Real-time clock	
Flexible installation portrait or horizontal	
Integration into dashboard (mounting frame)	
CE-conformity	
Data sheet:	95273

Flexible use and excellent readability

DI5 color displays are flexible and can be used in all types of cabins. The installation can be stand-alone or integrated into the dashboard and allows the unit to be positioned in 90° intervals (portrait or landscape). The display is also perfectly readable in bright sunlight. In addition, the BODAS Display DI5 has an ambient light sensor that adjusts the brightness level to its surroundings depending on the light intensity. Furthermore, optical bonding provides anti-fogging protection.

Free design of the graphic interface and functions

The programming and design of the interfaces, as well as the implementation of the display and operating logic, is carried out using Codesys, Qt and C/C++ which opens up a wide range of possibilities for individual function assignment. All machine functions can be visualized as desired, statically and dynamically. In addition, via the integrated video interfaces, various camera signals can be shown on the display as picture-in-picture or full screen.

Diagnosis, parameterization and flashing of BODAS RC40 control units without additional service tools

Bosch Rexroth simplifies the diagnosis and reparameterization of BODAS RC40 control units in the vehicle: The operator can use the DI5 display to identify active and stored malfunctions without any external diagnostic device, which speeds up the diagnosis. New parameters can be easily uploaded via the integrated USB interface. Furthermore, it is possible to flash new software to the connected BODAS RC40 control units.