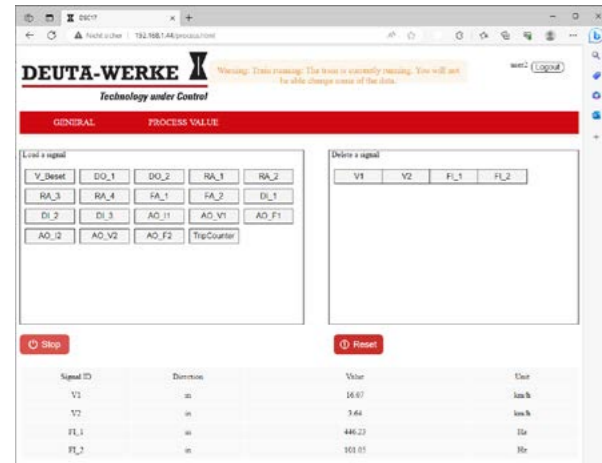
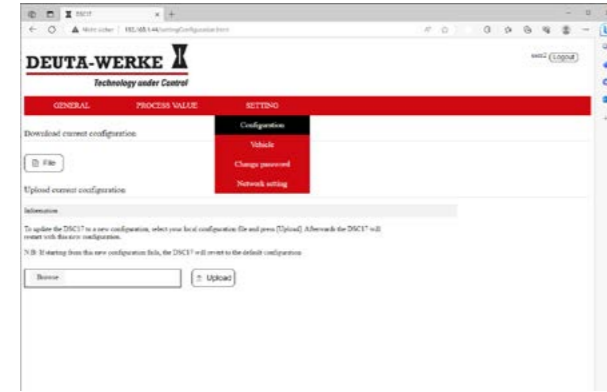
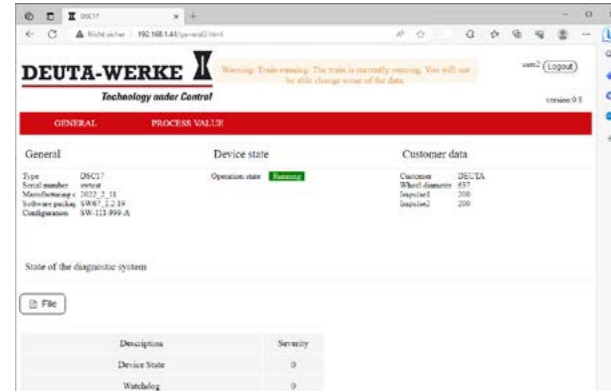


DSC17 - Web interface



Status, error message, wheel diameter and process values are visualised in three different user levels.

In addition, adjustments can be made to the IP address and the wheel diameter. The customer can also import a new configuration.

DEUTA DSC17 Digital Signal Converter

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»DEUTA DSC17 - Digital Signal Converter«

DEUTA Digital Signal Converter DSC17 converts recorded speed signals (frequencies) into digital and analogue output signals, such as distance pulses, switching thresholds, signals for controlling the speed indicators and mileage recorders. A further area of application is the control of the wheel flange lubrication: For this application, distance interval and duration of lubrication pulses are configurable.

With the exception of setting the wheel diameter, the DSC17 is already configured at the factory. It is possible to enter wheel diameters between 300 and 2,000 mm. The operating program is located on the internal memory. It is possible for the manufacturer to update the firmware via the Ethernet interface. The process values are visualised via the Web interface of the DSC17.

Speed signals used can be either DEUTA AC generators (EF sensors) or digital DEUTA generators (DF pulse sensors). The power supply of the two-channel DF pulse generators is provided by the DSC17. These digital sensors can be used for direction of rotation detection. The frequency inputs are galvanically isolated and can be used alternatively for both sensor variants by using different connection terminals.

The operating state of the DSC17 is displayed by three configurable LEDs on the front of the device. The keys on the front of the device can be used to switch the WiFi function on and off and to adjust the wheel diameter.

Digital Signal Converter DSC17

Nominal supply voltage:	DC 24 V
Supply voltage range:	DC 16.8 to 30 V
Current	max. 0.4 A at 24 V supply voltage
Frequency inputs	galvanically isolated 2 inputs
max. frequency inputs	10 kHz
Power supply for sensors	2
Voltage for sensor	DC 15 V
max. output current	65 mA per channel
Outputs	
analogue outputs (alternative):	
Current alternative	2
Voltage alternative	2
PWM	2
digital Outputs (relays)	4
digital outputs 0-100 Hz	2
Frequency output	2
Status LED (configurable)	green: Speed yellow: Power red: Error
Wheel diameter parameter range	300 - 2,000 mm
MTBF mean value: GM/40°C	141,616 h (according to SN 29500)
Ambient temperature	Operation: -25° C ... +70° C, Storage: -40° C ... +85 °C
Humidity	EN 50125-1
Shock/Vibration	EN 61373 category 1, class B
Fire protection	EN 45545-2
Standard	EN 50155
Weight	approx. 350 g
Protection category	IP 20



Digital Signal Converter DSC17

analogue outputs	
Number	2
Version	galvanically isolated
Voltage output alternat.	0 V - 10 V, max. 10 mA
Current output alternative	0(4) mA - 20 mA, load ≤ 500 R
PWM output	1-99 %, 10 V, max. 10 mA, 1 KHz basic frequency
proportional error	± 0.25 % (-25°C...+70°C)
Offset error	± 0.25 % from the final value (-25°C...+70°C)
Insulation voltage	AC 500 V
max. output frequency	5 Hz

Relay outputs	
Number	4
Version	realized as change-over contact
max. switching voltage	DC 125 V
max. switching current	1 A
max. circuit capacity	60 W (at ohmic load)

Frequency outputs	
Number	2
Version	NPN open collector - galvanically isolated
max. switching voltage	DC 40 V
max. switching current	25 mA
max. circuit capacity	0.25 W
Insulation voltage	AC 500 V
max. switching frequency	5 kHz

digital outputs	
Number	2
Version	NPN open collector - galvanically isolated
max. switching voltage	DC 150 V
max. switching current	100 mA
max. circuit capacity	0.25 W
Insulation voltage	AC 1000 V
max. switching frequency	100 Hz

Communication	
Ethernet	
WiFi	