

CW-323

D/A-CONVERTER



We have expanded our CW-300 series for test bench technology with the CW-323, a module designed to output 16 analog voltages. It is possible to freely select these voltages between 0-5 VDC with a high 12 bit resolution. The voltage outputs are controlled via the CAN bus. If required, it is possible to synchronize all 16 voltages.

The maximum switching speed of individual voltages is independent of the bus system. Customer-specific modifications are possible, which when implemented it is possible to output any stored waveforms with switching speeds of up to 100 kHz.

Consequently, the CW-323 is particularly suited for performing component tests and simulations on HiL test benches. In addition, there are practical reasons to deploy this model in all situations where it is envisaged generating voltages close to the test specimen, e.g., to avoid costly cabling or to apply the voltages as noise-free as possible to the test specimen.

PERFORMANCE CHARACTERISTICS

- 16 user programmable output voltages between 0 VDC and 5 VDC
- 12 bit resolution per channel
- Control via CAN bus
- Selective control of a single channel or simultaneous control of several channels possible
- All outputs protected against over-voltage, polarity reversal and short circuiting
- Quick and easy to install, suitable for top-hat rail (45 mm to DIN)
- Easy to extend and scale channels

VOLTAGE OUTPUTS

Number	16
Output voltage	Freely adjustable from 0 VDC to 5 VDC
Resolution	12 Bit per channel
Short circuit current	Permanent short-circuit proof, limited to 10 mA
Overvoltage protection	Permanent overvoltage-proof up to voltages of ± 24 VDC

CAN-INTERFACE

Number	1
Type	ISO 11898-2 (highspeed) CAN-protocol version 2.0 A and 2.0 B, supports SAE J1939 (29-bit-identifier)
Data rate	50, 100, 125, 250, 500, 800 and 1000 kbit/s
Termination	120 Ohm, optional via jumper

POWER SUPPLY

Supply voltage	7 VDC to 30 VDC
Current consumption	144 mA to 12 VDC

ENVIRONMENTAL CONDITIONS

Temperature range operation	-20 °C to +65 °C
Temperature range storage	-20 °C to +85 °C
Relative humidity	35 % to 85 %, non-condensing

GENERAL INFORMATION

Housing	45mm-DIN-Top-hat rail housing
Dimensions (LxBxH)	102 mm x 125 mm x 46 mm
Weight	120 g

FURTHER DEVICES CW-300 SERIES

CW-301 CAN controlled Power Supply	CW-326 Failure Injection Unit
CW-310 Wheel Speed Pulse Conditioning	CW-327 A/D-Converter
CW-311 Wheel Speed Unit Simulation	CW-328 Current Measurement Interface
CW-321 Power Relay-Interface	CW-329 Relay Control
CW-322 20-Fold Signal Relay-Interface	CW-390 High Load Relay up to 35 A
CW-324 Current Sink	CW-391 High Load Relay up to 70 A
CW-325 Bus and signal multiplexer	CW-392 High Load Relay with integrated current measurement