

CW-324

CURRENT SINK INTERFACE



We have expanded our CW-300 series for test bench technology with the CW-324, a module with 16 sink mode outputs. It is possible to set each current sink between 0 and 20 mA with a high 12 bit resolution. Furthermore, the amperage can be redefined 100 000 times per second and all 16 channels synchronized.

The maximum switching speed of individual voltages depends on 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-324 is particularly suited for performing component tests and simulations on HiL test benches. Furthermore, it is practical to use the module in all situations in which a certain current is to be applied to the test specimen.

PERFORMANCE CHARACTERISTICS

- 16 current sinks, freely adjustable between 0 and 20 mA
- Control via CAN bus
- 12 bit resolution per channel
- Switching speeds up to 100 kHz
- All outputs can be synchronized
- Quick and easy to install, suitable for top-hat rail (45 mm to DIN)
- Easy to extend and scale channels

CURRENT SINKS

Number	16
Current level	Freely adjustable from 0 to 20 mA
Resolution	12 bit (per channel)
Switching frequency	max. 100 kHz
Voltage range operation	1 VDC to 44 VDC at 25 °C, 1 VDC to 26 VDC over the entire temperature range
Dielectric strength max	Up to 200 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 activation via jumper

POWER SUPPLY

Supply Voltage	7 VDC to 30 VDC
Current consumption	33 mA at 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 (LxWxH)	102 mm x 125 mm x 46 mm
Weight	124 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-323 D/A-Converter	CW-391 High Load Relay up to 70 A
CW-325 Bus and signal multiplexer	CW-392 High Load Relay with integrated current measurement