CW-328

CURRENT MEASUREMENT INTERFACE

Utilizing the CW-328 it is possible to quickly and easily measure currents with very little effort. The addition to the CW-300 series from CANWAY is designed for test bench and other applications.

The current measurement interface provides 8 channels with which it is possible to measure currents from -5.8 A to +5.8 A. The measured data can be output via CAN bus and by means of an analog voltage signal. The maximum output transfer rate via CAN bus is 2 ms. Setting options, such as cycle time, CAN message ID and baud rate can be set via the CAN protocol.

The CW-328 is particularly suited for performing component tests and simulations on HiL test benches. Furthermore, it is practical to deploy this module in all other situations in which currents are to be measured in close proximity to the test specimen. This reduces costs for cabling as well as susceptibility to EMI noise.

In conjunction with the bus technology modules CW-101 and CW-102 it is possible to transfer measurement data via USB or Ethernet to a PC on the one hand, and to alter the configuration of the module on the other (communication is based on CAN-messages and can be performed with any CAN-interface). A software API written in C/C++ and C# facilitates incorporating the module in proprietary programs.

PERFORMANCE CHRACTERISTICS

- 8 measurement channels
- Current measurement up to ± 5.8 A
- 10 mA resolution per channel
- Measurement data output via CAN bus
- 8 analog voltage outputs proportional to the measured current values
- Top-hat rail housing for quick and easy installation
- Easy to extend and scale

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CURRENT MEASUREMENT CHANNELS

Number	8
Measurement range	-5,8 A to +5,8 A
Resolution	10 mA
Accuracy	10 mA
Output rate CAN-bus	max. 2 ms per channel (default setting), variable configuration via CAN-Bus
Voltage outputs	0 VDC to 10 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	500 kbit/s, on request: 50, 100, 125, 250, 500, 800 and 1000 kbit/s
Termination	120 Ohm, optional activation via jumper

POWER SUPPLY

Supply voltage	11 VDC to 30 VDC
Current consumption	140 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 INFORMATIONS

Housing	45 mm DIN-Top-hat rail housing
Dimensions (LxWxH)	96 mm x 125 mm x 50 mm
Weight	180 g

FURTHER DEVICES CW-300 SERIES

CW-301 CAN controlled Power Supply	CW-325 Bus and Signal multiplexer
CW-310 Wheel Speed Pulse Conditioning	CW-326 Failure Injection Unit
CW-311 Wheel Speed Unit Simulation	CW-327 A/D-Converter
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-324 Current Sink	CW-392 High Load Relay with integrated current measurement