CW-102

BIDIRECTIONAL CAN ETHERNET-GATEWAY (LAN)

The CW-102 extends the CW-100 series with a gateway to connect CAN bus and ethernet. Not only does it offer the user a simple and fast, but also a favourable economic solution to access CAN buses via IP networks. That makes it possible, for instance, to query distant measurement systems (remote maintenance) and also to position and check sensors and actuators with a CAN connection as required.

The CW-102 supports bidirectional data transfers: It packages CAN messages in TCP/IP frames and transmits them via LAN - over Intranet and/or Internet. In the opposite transmission direction: TCP/IP frames are broken down into suitable CAN messages.

In doing so, the CAN-Ethernet gateway functions independent of the CAN protocol used: Established protocol standards such as CANopen and DeviceNet are processed as equally as are proprietary protocols. It is possible to access the CW-102 directly via Ethernet or it can be integrated in proprietary projects via the API included in the scope of service.

With the extension for SCPI it is possible to query measuring devices and make their measured values available via the CAN bus. On the other hand it is also possible to programme measuring devices via the CAN bus.

PERFORMANCE CHARACTERISTICS

- Bidirectional CAN-Ethernet Transmission/Conversion

- CAN bridge functionality (CAN-Over-Ethernet)

- Connection of up to 5 CAN networks via Ethernet

- Quick and easy to install

- Setting parameters via web interface

- Easily extend and scale measurement systems operated on CAN bus

- Integrate in proprietary programmes via API

- Connect to measuring devices utilizing SCPI

CANWAY
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ETHERNET-INTERFACE

Number	1, galvanically isolated max. 2,5 kV
Type	IEEE 802.3
Data rate	Up to 100 Mbits/s
IP-Parameter	Configurable via web-interface: IP-adress, netmask, etc.

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	10, 50, 100, 125, 250, 500, 800 and 1000 kbit/s configurable via web-interface
Termination	120 Ohm resistor, optional

POWER SUPPLY

Supply voltage	7 VDC to 30 VDC
Current consumtion	75 mA (at 12 VDC)

ENVIRONMENTAL CONDITIONS

Temperature range operation	- 10 °C to +70 °C
Temperature range storage	-20 °C to +85 °C
Relative humidity	35 % to 85 %, non condensing
Protection class	IP20

GENERAL INFORMATION

Housing	Top hat rail housing with screw terminals
Dimensions (LxWxH)	120 mm x 120 mm x 23 mm
Weight	133 g
Configuration	Via web-interface
Scope of services	Bidirectional routing of CAN-messages via ethernet CAN-bridge for max. 5 CAN-networks via intranet/internet Operating system independent configuration via web-interface C#, C and C++ API for integration in custom programs SCPI-Connection for communication with measurement equipment (optional) CAN-Monitor CW-901 for visualization of CAN-bus

FURTHER DEVICES OF THE CW-100 SERIES

CW-101 CAN-USB-Interface	CW-131 Optical Transmission Unit for FlexRay, CAN and LIN
CW-114 FlexRay™-Repeater	CW-140 Programmable Interface for CAN and LIN
CW-121 CANnect II Gateway for CAN und LIN	CW-141 CAN-Bus and CCP Analyzer