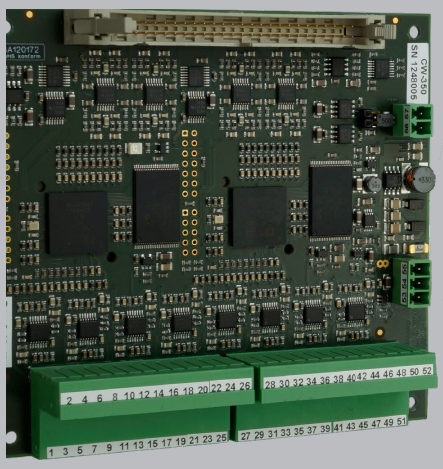
CW-350/351

DSP FILTER



High-sensitivity sensors are used to facilitate dynamic and precision acquisition of measurement data. Input channels on test benches, measurement technology or automation technology are often unable to carry out the required sampling rates, nor do they have filters to suppress interference signals or alias effects prior to digitizing signals. Both of the modules CW-350 and CW-351 make it possible to implement pre-filtering, signal conditioning and signal calculations with maximum flexibility.

A high-performance signal processor (DSP) makes it possible to implement variable low pass, high pass and bandpass filters, a wide range of different transfer functions and filter characteristics and filter orders.

For the purpose of maximum flexibility the processed data can either be output analog or via the CAN bus. Furthermore, it is possible to set predefined filters dynamically and according to the operating status via the CAN bus.

PERFORMANCE CHARACTERISTICS

- Prefilter analog signals on DSPs
- DSP-based signal conditioning
- 14 bit analog/digital converter
- 12 bit analog/digital converter
- Customer-specific filter processes configurable
- External triggering of measurements
- Suitable for prefiltering in HiL test benches
- Ideal as anti-aliasing filter or for signal conditioning

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	CW-350	CW-351
INPUTS		
Number	16	16
Voltage range	± 15 VDC	0 VDC to 28 VDC
Resolution	14 bit	14 bit
OUTPUTS		
Number	16	16
Voltage range	± 9,5 VDC	0 VDC to 40 VDC
Resolution	12 bit	12 bit
CAN-INTERFACE		
Number	1	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	10,5 VDC to 18 VDC	44 VDC to 48 VDC
Current consumption	160 mA at 12 VDC	170 mA at 48 VDC
ENVIRONMENTAL CONDITIONS		
Temperature range operation	-20 °C to +70 °C	-20 °C to +70 °C
Temperature range storage	-20 °C to +85 °C	-20 °C to +85 °C
Relative humidity	35 % to 85 %, non-condensing	35 % to 85 %, non-condensing
GENERAL INFORMATION		
Housing	Mounting for 45 mm DIN - top-hat rail	Mounting for 45 mm DIN - top-hat rail
Dimensions (LxWxH)	122 mm x 110 mm x 15 mm	210 mm x 110 mm x 15 mm
Weight	124 g	229 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
CW-321 Power Relay-Interface	CW-329 3-Fold Signal Relay Interface
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
CW-325 Bus and Signal multiplexer	

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