

AD CAN MM Series

Type MW2



Product description

AD8 MW2 measurement module features 8 analog inputs and provides very good measurement accuracy. Sensors with BNC plug can be connected directly.

AD8 MW2 is ideal for use in protected places or on test benches.

CAN

Key features

- ▶ 8 voltage inputs, galvanically isolated
- ▶ Measurement inputs adjustable per channel from ± 100 mV to ± 60 V
- ▶ Measurement data rate up to 2 kHz per channel
- ▶ Direct connection of sensors with BNC plug

Scope of delivery

- ▶ Measurement module AD8 MW2
- ▶ Configuration software CSMconfig
- ▶ Documentation
- ▶ Calibration certificate in accordance with DIN EN ISO/IEC 17025


Maintenance

- ▶ Calibration every 12 months recommended

Accessories

- ▶ See datasheet "CAN Accessories"

Technical data

Type designation	AD8 MW2
Technical data valid as of revision	J500
	
Inputs	8 voltage inputs
Measurement ranges	± 100 , ± 200 , ± 500 mV and ± 10 , ± 20 , ± 60 V
Internal resolution	16 bit
Internal sampling rate per ch.	2 kHz
Measurement data rate/ sending rate per channel	1, 2, 5, 10, 20, 50, 100, 200, 500 Hz and 1 kHz, 2 kHz
HW input filter	low-pass filter 3rd order, approx. 500 Hz
SW input filter	6 th order Butterworth filter, range: 0.1 Hz to 500 Hz automatically adjusted to sending rate alternatively: cutoff frequency adjustable per channel or average value per sending interval
Input protection ¹ Operational safety Device safety	± 60 V permanent ± 100 V permanent, additional ESD protection
Gain error ²	
at 25 °C	max. ± 0.05 % of measured value
Temperature drift	max. ± 10 ppm/K
Galvanic isolation ³	no safety isolation in terms of high-voltage applications
Channel/channel	500 V
CAN/channel	500 V
CAN/power supply	500 V
CAN interface	CAN 2.0B (active), High Speed (ISO 11898-2:2016) 125 kbit/s to max. 1 Mbit/s, data transfer "free running"
Configuration	via CAN bus using CSMconfig or CSM INCA AddOn, settings and configurations stored in the module
Power supply	
Minimum	6 V DC (-10 %)
Maximum	50 V DC ($+10$ %)
Power consumption ⁴	typ. 1.3 W
LED indicator (CAN)	Power/status
Housing	aluminum, blue anodized
Protection class	IP50
Weight (device)	approx. 500 g
Dimensions (w × h × d)	approx. 200 × 35 × 50 mm, approx. 200 × 40 × 50 mm (Slide Case)

Type designation	AD8 MW2
Connectors	
CAN/power supply	LEMO 0B, 5-pole, code G
Signal inputs	BNC
Operating and storage conditions	
Operating temperature range	-40 °C to +85 °C
Relative humidity	5 % to 95 %
Pollution degree	1
Storage temperature	-55 °C to +90 °C
Conformity	CE

¹ Observe information regarding the intended use. See CSM document "Safety Instructions MiniModule".

² Further information can be found in the Technical Information document on the subject of "Deviation of Measurement".

³ These MiniModules are designed for measurements in vehicles with 12 V, 24 V, or 48 V on-board power supply systems. The maximum operating voltage at the measurement inputs is 60 V. Do not connect directly to systems with higher operating voltages, e.g. high-voltage batteries of hybrid or electric vehicles.

⁴ As of hardware revision F, the typical power consumption of previous hardware revisions is 1.6 W.



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