



AD-Scan MiniModul pro

- ▶ Universally applicable, extremely compact CAN bus measurement modules
- ▶ Measurement rate per channel up to 10 kHz (ADMM 4 pro HS)
- ▶ Enhanced sensor linearization with up to 32 sampling points per channel (ADMM 4 pro HS)
- ▶ 4 or 8 differential voltage inputs, completely electrically isolated
- ▶ Measurement range adjustable per channel, from 10 mV to 60 V
- ▶ High-precision differential sensor excitation, adjustable per channel, perfect for ratiometric sensors
- ▶ Operating temperature: -40 °C to +125 °C
- ▶ Robust aluminium housing: IP67
- ▶ LED status indicator per channel

The **ADMM 4 pro HS** covers an **extremely wide range of applications**: “simple” voltage measurement, high-precision current measurement (via shunts), measurement of very low (mV level) voltages, and acquisition of higher frequency signals with **measurement data rates up to 10 kHz**. These modules are designed to operate in temperature up to 125 °C.

Multiple measurement ranges and high-precision sensor excitation

The AD-Scan MiniModule pro has extremely stable, very robust, and high-precision differential sensor excitation over the complete operating temperature range from -40°C to +125°C. The module is suited for use of **ratiometric sensors**, such as motor vehicle production series sensors for challenging measuring problems – such as in the engine compartment.

To address these applications, the sensor excitation is implemented in a distributive manner, where the overall available power is distributed according to requirements of the connected sensors as assigned per channel. Therefore, current clamps can be directly connected to the module.

To resolve low signal voltages of mV/V sensors, piezo-electric sensors or strain gauge-bridges, **measurement ranges of 10 mV, 20 mV and 50 mV** are available.



ADMM 4 pro HS (Slide Case Small)



ADMM 8 pro (Slide Case Large)

The CSM ConfigTool provides options for zero-point and span amplification factor compensation. These options are additionally implemented in the module.

4 or 8 channels

The ADMM 4 pro is a four-channel unit featuring a very small form factor, while the ADMM 8 pro is an economically-priced eight-channel unit. Both modules have a two-color status LED per channel for indication of CAN bus errors, status, and sensor short circuit.

ADMM 4 pro HS: 4 high-speed channels

Each analog input is extremely low-noise and sampled at 10 kHz. Up to 2 channels at **10 kHz**, or 4 channels at **5 kHz** can be transferred securely over the CAN bus. Therefore the acquisition of **higher frequency sensors**, such as accelerometers or pressure sensors, can be accomplished with **traditional CAN bus measurement technology**.

Extended scaling (32 sampling points)

The ADMM 4 pro HS enhances the traditional 2-point sensor scaling and offers the possibility to characterize up to 32 sampling points per channel, which are directly stored in the module.

This extended linearization is often applied for flow and pressure **sensors with non-linear characteristics**, producing optimal measurement results over the entire sensor measurement range. This feature is available in the CSM ConfigTool and CSM INCA AddOn for INCA 6.x.

To simplify the configuration and the usability of the modules, there is the possibility to import and export the sensor characterization tables as .csv-file.

Shipping content

CAN bus MiniModule, CSM ConfigTool, documentation, calibration certificate according to DIN EN ISO/IEC 17025

Maintenance

We recommend a calibration interval of 1 year. For further technical information and references please contact technical sales and distribution.

Part numbers

(Standard version with LEMO 0B 5-pole for CAN / power supply and LEMO 0B 6-pole for signal inputs)

ART0200822

ADMM 4 pro HS (Slide Case)

ART0200816

ADMM 4 pro HS

ART0200814

ADMM 8 pro (Slide Case)

ART0200801

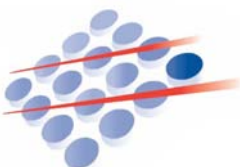
ADMM 8 pro

Accessories

Cables for CAN and power supply, CAN adapter cable, signal cables for sensor connection, CAN bus termination and mechanical mountings, see data sheet "**MiniModul Accessories**".



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