



AD-Scan MiniModul pro2



The measurement device ADMM 8 pro2 is especially designed for the use of ratiometric sensors and sensors with a power supply voltage up to 30 V DC. With its high-precision, galvanically insulated sensor excitation it is not only suited for a wide range of active sensors but also for strain gauge-bridges and sensors with ground-referenced signal inputs.

Key features

- ▶ 8 bipolar, galvanically insulated voltage inputs
- ▶ Measurement inputs adjustable per channel from 10 mV to 60 V
- ▶ Measurement data rate up to 2 kHz per channel
- ▶ High-precision bipolar, galvanically insulated sensor excitation, adjustable per channel
- ▶ Operating temperature: -40°C to +125°C
- ▶ Robust aluminium housing: IP67
- ▶ Extremely compact CAN bus measurement device

Shipping content

- ▶ MiniModul, ConfigTool, documentation, DAkkS calibration certificate

Maintenance

- ▶ Recalibration every 12 months is highly recommended

Part number

- ▶ ART1010704 ADMM 8 pro2 (Slide Case)
- ▶ ART1010705 ADMM 8 pro2

Accessories

- ▶ Cables for CAN and power supply, CAN connection cables, signal cables, CAN terminator plugs, mounting material see data sheet “**MiniModul Accessories**”.

Technical Specifications AD-Scan MiniModul pro2

| Technical Data | ADMM pro 2 |
|--|--|
| Inputs | 8 analog inputs |
| Measurement range | $\pm 10, \pm 20, \pm 50, \pm 100, \pm 200, \pm 500$ mV and $\pm 1, \pm 2, \pm 5, \pm 10, \pm 20, \pm 60$ V |
| Internal resolution | 16 bit |
| Internal sampling rate per ch. | 2 kHz |
| Measurement data range per ch. | 1, 2, 5, 10, 50, 100, 500 Hz and 1 kHz, 2 kHz |
| HW input filter | low-pass filter 3 rd order, approx. 500 Hz |
| SW input filter | selectable 6 th order Butterworth filter, range: 0.1 Hz to 500 Hz, automatically adjusted to measurement data rate, alternatively: threshold frequency adjustable per channel |
| Input protection ⁽¹⁾ | |
| Operational safety | ± 60 V permanent |
| Device safety | ± 100 V permanent, additional ESD protection |
| LED per input channel | sensor excitation on (green) / short-circuit (red) |
| Measurement accuracy | |
| at 25°C | typ. 0.05 % |
| Temperature drift | typ. ± 10 ppm/K |
| Sensor excitation | galvanically insulated |
| Voltage | $\pm 5, \pm 8, \pm 10, \pm 12, \pm 15$ V DC, therefore also 10, 16, 20, 24, 30 V DC per channel typ. ± 30 mA, selectable and adjustable per channel ⁽²⁾ |
| Galvanic insulation⁽³⁾ | no safety insulation in terms of high-voltage applications |
| Channel / channel | 500 V |
| CAN / channel | 500 V |
| CAN / power supply | 500 V |
| Power supply / sensor excitation | 500 V |
| CAN interface | CAN2 0B (active), High Speed (ISO11898) 125 kBit/s to max. 1 MBit/s, data transfer is free running via CAN bus using CSM ConfigTool or CSM INCA AddOn, settings and configuration data stored in the device |
| Power supply | |
| Minimum: | 6 V DC (-10 %) |
| Maximum: | 50 V DC (+10 %) |
| Power consumption | typ. 1.8 W (without sensor excitation) |
| LED indicator | power (green), state (red) |
| Housing | Aluminium gold anodized |
| Protection class | IP67 |
| Weight | approx. 500 g |
| Dimensions (w x h x d) | approx. 200 x 35 x 50 mm approx. 200 x 40 x 50 mm (Slide Case) |
| Sockets | |
| CAN / power supply | LEMO 0B 5-pole |
| Signal inputs / sensor excitation | LEMO 0B 6-pole |
| Operating and storage conditions | |
| Operating temperature | -40 °C to +125 °C |
| Relative humidity | 5 % to 95 % |
| Pollution degree | 3 |
| Storage temperature | -55 °C to +150 °C |
| Conformity | CE |

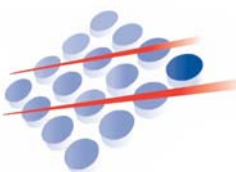
1) Observe the information regarding the intended use: see CSM document "Safety Instructions MiniModul".

2) In case of full load (7.2 W) a power supply > 8 V is required, see Application Note.

3) These MiniModul devices are designed for measurements in vehicles with 12 V-, 24 V-, or 42 V onboard power supply systems. The maximum operating voltage at the measuring inputs is 60 V. **Not suitable** to be used in systems with higher operating voltages, e.g. high-voltage batteries of hybrid- or electric cars.



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