

Power Control MiniModule

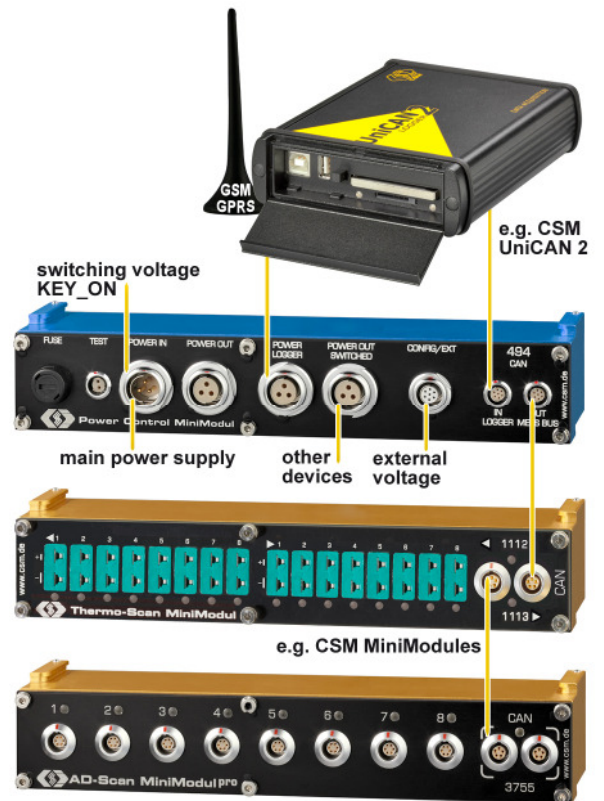
- ▶ Central power distribution for the entire measurement system
- ▶ Switching on and off selectively of measurement modules, data logger and further external devices
- ▶ Configurable gate input: KEY_ON, switching voltage by the data logger, external voltage
- ▶ Buffering during ignition
- ▶ Operating temperature: -40 °C to +85 °C
- ▶ Robust aluminum housing: IP50
- ▶ Very compact design, adapted to CSM MiniModules

The Power Control MiniModule selectively switches on and off a data logger and measurement modules. The Power Control MiniModule can easily be configured for different application by use of the configuration plug. The power supply for a data logger and measurement modules is switched by KEY_ON of the car (key on / off) or an external voltage. Alternatively, measurement modules and further external devices can also be switched using a signal supplied by the data logger.

Configuration	Gate input	Switched devices
A	KEY_ON	Logger, measurement modules and further external devices
B	KEY_ON	Logger
	Switching voltage by the Logger	Measurement modules and further external devices
C	KEY_ON or external	Logger
	Switching voltage by the Logger	Measurement modules and further external devices

Table with examples of configuration

To switch additional devices, the Power Control MiniModule can simply be cascaded. High-quality semiconductor switches allow switching of currents up to 12 A.



Example of a CSM measurement system with data logger

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Specifications Power Control MiniModule

Technical data	Power Control MiniModule
Inputs	Power In Power Out Power Logger Power Out Switched CAN In Logger CAN Out Messbus Config/Ext Test
Power supply	approx. 5 V to 50 V DC
Power consumption Switching output off Switching output on Charge process SuperCaps	typ. 2 mA typ. 17 mA max. 2,5 A temporary
Gate inputs	switch-on voltage: 4 V to 48 V input resistance: ≥ 10 kOhm
Output Power Out Power Logger/Power Out Switched	max. 12 A (unbuffered) max. 35 W (buffered)
Dimensions (W x H x D)	approx. 200 x 35 x 50 mm approx. 200 x 40 x 50 mm (Slide Case) approx. 550 g
Weight	
Operating temperature Storage temperature Relative humidity	-40 °C to +85 °C -40 °C to +85 °C 5 % to 95 % (non-condensing)
Protection	IP50
Housing	Aluminium, blue anodized

Technical data	Power Control MiniModule
Buffer capability ¹⁾ Output power Time period Starting voltage Final voltage	35 W ²⁾ ≥ 500 ms ²⁾ approx. 9 V approx. 7 V
Conservation of buffer capability ¹⁾ with U _{BATT} on with U _{BATT} off	unlimited reduction of starting voltage by approx. 0,2 V/h
Recharge ¹⁾ After discharge more than 500 ms After complete discharge	approx. 10 s approx. 20 s
Minimum vehicle voltage for complete charge with limit stop	12 V
Conformity	CE

¹⁾ Buffering is only active, if KEY_ON is on.

²⁾ Having less output power, the time period extends accordingly.

Part numbers:

PCMM ART0202823 (Slide Case)
 PCMM ART0202822

For further technical information and references please ask our technical sales and distribution.