



Power Control MiniModul

- ▶ 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 aluminium 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 1: Examples for 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.

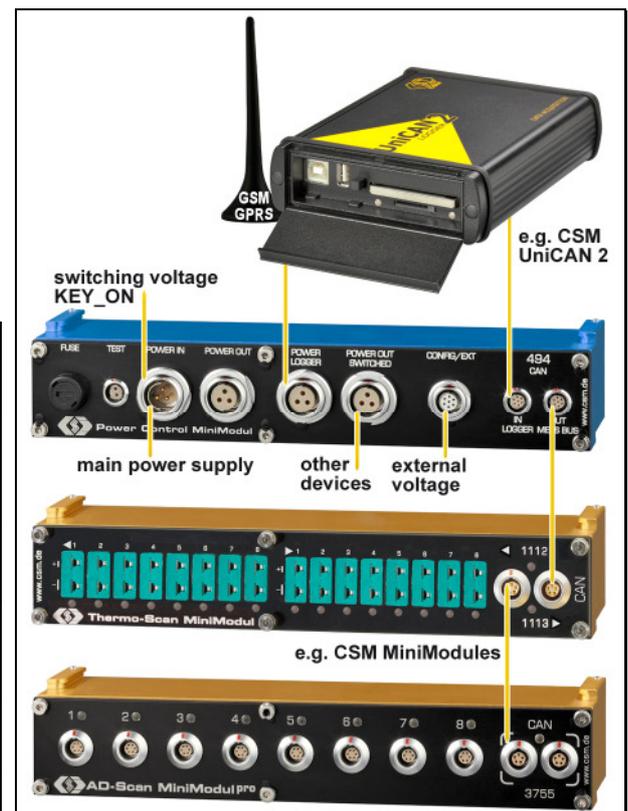


Figure 1: Example of a CSM measurement system with data logger.

Specifications Power Control MiniModul

Technical Data	PCMM
Inputs	Power In Power Out Power Logger Power Out Switched CAN In Logger CAN Out Mess-Bus Config/Ext Test
Power supply Minimum Maximum	6 V DC (-10 %) 50 V DC (+10 %)
Power consumption Switching output off Switching output on Charge process SuperCaps	typ. 2 mA typ. 17 mA max. 2,5 A temporary
Switching 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)
Buffer capability¹⁾ Output power Time period Starting voltage Final voltage	35 W ²⁾ ≥ 500 ms ²⁾ approx. 9 V approx. 7 V
Conservation of buffer capability with U _{BATT} on with U _{BATT} off	unlimited reduction of starting voltage by approx. 0.2 V/h
Recharge after discharge more than 500 ms after complete discharge Min. vehicle voltage for complete charge with limit stop	ca. 10 s ca. 20 s 12 V
Housing Protection class Weight Dimensions (w x h x d)	Aluminium – blue anodized IP50 approx. 550 g approx. 200 x 35 x 50 mm, approx. 200 x 40 x 50 mm (Slide Case)
Operating and storage conditions Operating temperature Relative humidity Pollution degree Storage temperature	-40 °C to +85 °C 5 % to 95 % (non-condensing) 1 -40 °C to +85 °C
Conformity	CE

1) Buffering is only active if KEY_ON is on.

2) In case of lower 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.

CSM GmbH
Computer-Systeme-Messtechnik
 Raiffeisenstr. 36 • 70794 Filderstadt • Germany
 Phone: +49 711 77964-20 • Fax: +49 711 77964-40
 info@csm.de • www.csm-products.com

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