



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, measure- ment modules and further external devices
В	KEY_ON	Logger
	Switching voltage by the logger	Measurement modules and further external devices
	KEY_ON or external	Logger
С	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.

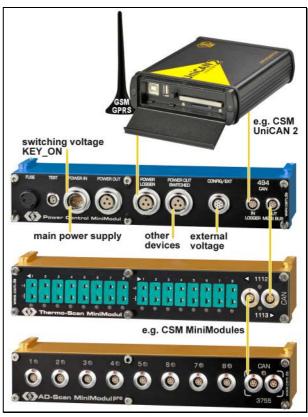


Figure 1: Example of a CSM measurement system with data logger.

Specifications Power Control MiniModul

Technical Data	РСММ	
Inputs	Power In	
·	Power Out	
	Power Logger	
	Power Out Switched	
	CAN In Logger CAN Out Mess-Bus	
	Config/Ext	
	Test	
Power supply		
Minimum	6 V DC (-10 %)	
Maximum	50 V DC (+10 %)	
Power consumption		
Switching output off	typ. 2 mA	
Switching output on	typ. 17 mA	
Charge process SuperCaps	max. 2,5 A temporary	
Switching inputs	switch-on voltage: 4 V to 48 V	
Childring inputs	input resistance: ≥10kOhm	
Output		
Power out	max. 12 A (unbuffered)	
Power logger/	max. 35 W (buffered)	
Power out switched	max. 55 TV (buildida)	
Buffer capability ⁽¹⁾		
Output power	35 W ⁽²⁾	
Time period	$\geq 500\mathrm{ms}^{(2)}$	
Starting voltage	approx. 9 V	
Final voltage	approx. 7 V	
Conservation of buffer capability		
with U _{BATT} on	unlimited	
with U _{BATT} off	reduction of starting voltage by approx. 0.2 V/h	
Recharge		
after discharge more than 500 ms	ca. 10 s	
after complete discharge	ca. 20 s	
Min. vehicle voltage for complete	12 V	
charge with limit stop		
Housing	Aluminium – blue anodized	
Protection class	IP50	
Weight	approx. 550 g	
Dimensions (wxhxd)	approx. 200 x 35 x 50 mm,	
Operating and attended and distance	approx. 200 x 40 x 50 mm (Slide Case)	
Operating and storage conditions	4000 to 10000	
Operating temperature	-40°C to +85°C	
Relative humidity	5 % to 95 % (non-condensing)	
Pollution degree	1	
Storage temperature	-40°C to +85°C	
Conformity	((

Part numbers:

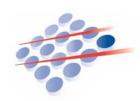
PCMM ART0202823 (Slide Case)

PCMM ART0202822

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



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Buffering is only active if KEY_ON is on.
 In case of lower output power, the time period extends accordingly.