

POWER CONTROL MODULE 2 AC A NEW HORIZON IN POWER MANAGEMENT



A new horizon in power management

OBR's PCM2_AC thrusts the concept of intelligent power management to new pinnacles. It provides a freely programmable, open and unique system upon which to build total control of a racing car's electrical system.

Based on the competitive success, knowledge and experience gleaned from OBR's PCM2, PCM2_AC is the most technologically advanced, powerful and flexible unit ever seen in this compact measure.

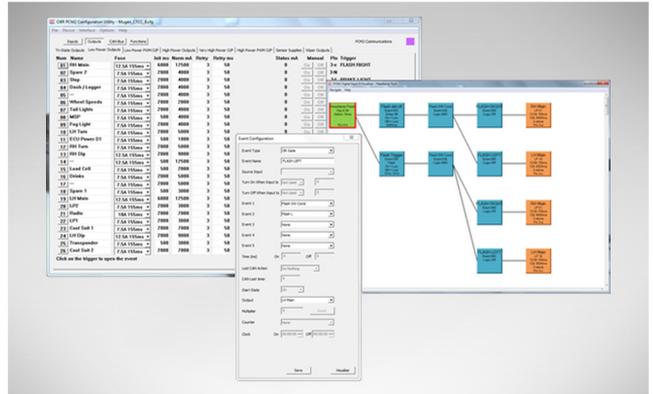
PCM2_AC has unrivalled high current handling and measuring abilities spread across its 8 individual power output channels, each of which can be controlled by any number and type of input or trigger. All power outputs have self-recovery features suitable for use with motors and resistive and inductive loads. Outputs handle peak currents up to 75A.

The PCM2_AC effortlessly exchanges data with other modules in the car primarily over its multiple CAN ports. This means that every value and data packet that is exchanged, recorded or seen e.g. current draw and channel status can be exported and shared over all of the PCM2_AC open CAN network. The PCM2_AC also supports CAN routing meaning data can be exchanged from one bus to another bus freely, exported to wherever the user defines.

All CAN data channels are completely free for the user to configure, there are no limitations to CAN address or how the protocol is configured. The PCM2_AC will therefore interface easily with any other CAN based product found on the market.

In addition to the free CAN structure, the PCM2_AC has 8 analogue sensor inputs and 8 digital inputs. Analogue inputs can be paired individually to become differential inputs.

PCM2_AC is also equipped with a real time clock and data recording capabilities.



Software

The PC Tool used to configure the PCM2_AC has been logically laid out and is simple to use.

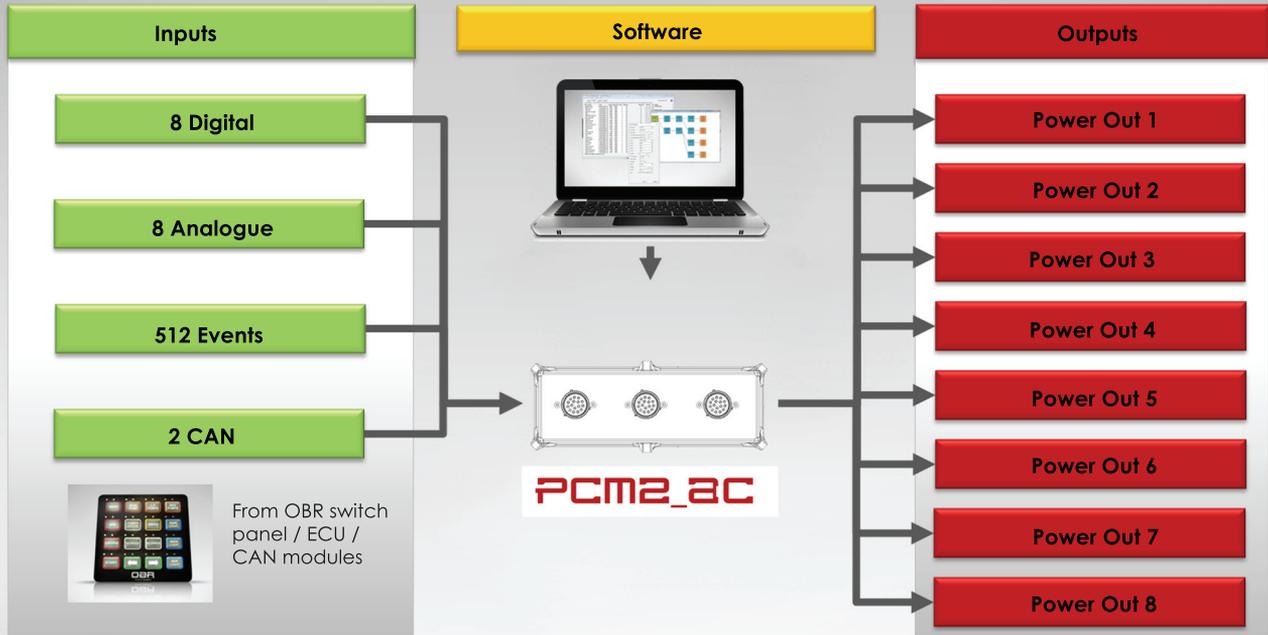
A special feature of the PC Tool is the graphic visualizer which makes calibration, modification and fault finding of the unit's configuration near to effortless.

Event based handling

PCM2_AC is controlled by configurable software events. Events are used to define and create specific conditions, simple as well as complex, which then controls an output or other events. Multiple events can be placed within other events, creating almost unlimited control conditions.

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Flow Overview



General Specifications

- 8 Power outputs
- 8 Digital inputs
- 8 Analogue sensor inputs
- 64 Individually programmable CAN inputs, 11 or 29 bit identifiers, with bit operator
- 2 Individually programmable CAN bus with **No limitation on CAN id's**
- RS232 Link
- VREF sensor supply
- Fault warning light
- CNC machined and anodized enclosure (O-ring sealed)
- Deutsch Autosport connectors

Electrical Specifications

- Supply voltage 6 to 30 volts
- Maximum operating temperature $\leq 85^{\circ}\text{C}$
- Maximum recommended continuous output current 100A
- In-rush current capability 500A

Software Specifications

- 512 individually programmable events
- Automatic and user-defined pre-set channel shutdown protection
- Programmable inrush current levels and inrush times
- Programmable fuse thresholds, retries and retry time intervals
- Manual reset function for all overloaded channels
- Current draw and channel status diagnostics
- Compatible with OBR's range of membrane switch panels (software selectable)



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