THE SIMTEK BODYLOGIC™ RANGE

THE RANGE COMPRISES THREE GROUPS OF CONTROL UNITS

1. Integration units
2. Standalone control units
3. Combined control units (BCU'S)

1 Integration units

This range of integration units allow the user to connect normally unusable components to standard electrical systems. we currently have the following units but we are developing new unit all the time.

- EPS Signal generator unit A - For the Corsa B and C steering columns; allowing the use and adjustment of the power assistance.
- EPS Signal generator unit B - For the Corsa B and C steering columns; allowing the use and adjustment of the power assistance but with the ability to adjust against road speed for an 'OEM' feel but adjustable to suit the new environment.
- Variable voltage switch encoder – Many new model combination switches found in later vehicles have a variable voltage output witch can't control a normal electrical system, this unit converts the signals in to usable switch outputs.
- CAN Transmitter / receiver pair – These units are designed to be added to an existing system to reduce the numbers of wires in the harness. The unit can encode and decode 14 switch signals and 3 analogue signals in one direction, and 4 Switches and 2 analogue signals in the other direction.
- Smart RF Transmitter – This unit is designed to encode switch signals on to a radio signal to be received by one or more of the other RF enabled units produced by Simtek (UK). The unit can encode and decode 14 switch signals and 4 analogue signals in one direction. Bi-directional communications are possible contact us for details.
- Smart RF Transmitter / Receiver Pair - These units are designed to be added to an existing system to reduce the numbers of wires in the harness. The unit can encode and decode 14 switch signals and 4 analogue signals in one direction. The unit is designed to Interface between switches and then drive existing relays and has no power switching capability.

2 Standalone control units

This range of control units allows the user to add have/ add control functions to older vehicles or, when designing a system, use normally un-related components together to create the system and function they want or need.

- **Indicator control** – This unit allows the use of any type of switches, different types of switch across the functions any type or light source. It also gives selectable functions that can be combined to suit any installation to create the correct and functional indicator control wanted. The unit features current monitoring and control so requires very little wiring and no other external components save the switches light units (for details on exactly what this unit is capable of see the separate spec sheet).
- **Wiper Control unit** – This control unit like the indicator control unit allows maximum flexibility in its inputs and outputs. It covers all the functions a high end road vehicle has, including wash-wipe, rear wash wipe, headlight wash and power wash. With its on-board fusing, the unit requires very little

wiring and no other external components save the switches and motors (for details on exactly what this unit is capable of see the separate spec sheet).

- **Cooling fan control unit** – This unit allows two high power fans to be staged and controlled independently using the 2 configurable temp inputs or in conjunction with an ECU to give high performance fan control. The unit is also capable of controlling a third fan and water pump to give total cooling system control and "after run" pump and fan control for heat management. The unit will control 2 X 40Amp fans + 1 X 10A water pump and 1 15Amp secondary cooling fan (Oil cooler etc). With its on board fusing the unit requires very little wiring and no other external components save the switches and motors (for details on exactly what this unit is capable of see the separate spec sheet).
- **Heated screen control unit** – This unit allows two high power heated screen elements to be staged and controlled independently. The unit is also capable of controlling a rear heated screen or side screens. The unit will control 2 X 40Amp screen elements and a further 2 X 25Amp screen elements. The control can be direct switching or via the internal logic which can have timers and 2 temp sensor inputs. With its on board fusing, the unit requires very little wiring and no other external components save the switches and motors (for details on exactly what this unit is capable of see the separate spec sheet).
- **Smart RF power control Pair** – This pair of units is Smart RF Transmitter / receiver units is designed to be used in a new system to reduce the numbers of wires in the harness or to allow more flexible design in switching layouts. The unit can encode and decode 14 switch signals and 4 analogue signals in one direction. The unit has on-board logic and power switching relays so it can directly control loads and with its on board fusing the unit requires very little wiring and no other external components save the loads its driving (for details on exactly what this unit is capable of see the separate spec sheet).

3 Combined control units

- **BodyLogic™ 1** – This unit is designed a complete fuse and control solution for a motor bike, basic race car or as an outstation (node) for the higher models in the range. It features up to 14 Channels some with multiple outputs. The unit can be RF and CAN enabled.
- **BodyLogic™ 10 –** This unit is designed as a complete fuse and control solution for a Road/Race Bike or Road/race car and has many smart function. The unit features up to 18 Channels most with multiple outputs. The unit can be RF and CAN enabled**.**
- **BodyLogic™ 20** - This unit is designed as a complete fuse and control solution for a high end road car or endurance race car and has many smart function. The unit features up to 28 Channels most with multiple outputs. The unit can be RF and CAN enabled.
- **BodyLogic™ 24** This unit is designed as a complete fuse and control solution for a mid to high end road car or endurance race car and has multiple smart function. The unit features more channels and functions but with less per channel power handling up to 36 Channels most with multiple outputs. The unit can be RF and CAN enabled.