



THE LOGIC™ 1

www.bodylogicuk.com | 01706 854857

Simtek (UK)'s BodyLogic™ range is designed, specifically, to give greater functionality and reliability to a vehicle's electrical systems whilst at the same time reducing its physical size and complexity.

The Logic™ range allows the use of more modern switching, if preferred, and greatly simplifies the wiring, switching and control systems in the vehicle.

The complete range is built around the need to comply with vehicle type approvals (IVA ETC) and all have the option of approved immobiliser and alarms*

The BodyLogic™ range features a large number of smart but uncomplicated functions such as indicator lights "current draw learn" which allows the customer to have any combination of light types whilst retaining the light failure warning, smart daytime running light control as well as functions like customer configurable wiper intermittent control and on board approved immobiliser*. One new exciting feature is our wireless switch control allowing the use of steering-wheel-mounted switches or simply allowing the reduction of the number of hard wires needed in the system.



The BodyLogic™ range was designed so it can be incorporated into any harness design you or we can dream up. The range comes pre-configured to be used in a wiring system as a prescribed (Base model) or as a + model you were you can control the auxiliary channels as you choose. The + model also has the option of active software that allows you to use momentary switching and single buttons to activate multiple functions e.g. Single button Ignition/crank control.

The range also allows for complete customisation. The units can be configured, during manufacture, to suit your exact requirements.

The BodyLogic™ range has another trick up its sleeve, by using our wireless switch module (BodyLogic™ Smart RF), the control units can be

directly connected to a switch bank or steering wheel without the need for wires. Designed for vehicles with a number of switches mounted on the steering wheel this system can be expanded in a number of smart ways.

BODYLOGIC™ 1, 1+, 1I AND 1I+

This is the smallest combined unit in our range and is in a housing 80mmX100mmX35mm in dimension, ABS box (machined aluminium version available)

The 1 range is ideally suited to use in motorbikes, very basic kit and race cars or as a Slave (Node) unit to expand an existing system or to add remote functions to a vehicle.

The unit has all the functions required to control a basic road registered vehicle without a windscreen, it has all the necessary functions for IVA approval as well as the option to upgrade to on board immobiliser*

The unit incorporates all the control electronics, Power switching and Fuse protection in one unit.

The Logic 1's physical layout is arranged so that the vehicles wiring harness could be simplified and designed in a complimentary way. With the ability to use the BodyLogic™ Smart RF, wiring to the switches can be kept to a minimum whilst the power to components such as lights, Fuel pump ETC is simple and direct to the component without the need for any other external components. Battery power is supplied to the unit Via a M 6 power stud on the side which can be upgraded to an Amphenol RadSok™ to simplify and

speed up installation in a motor sport or production environment.

The unit features many smart functions such as –

- Battery master switch input to cut ignition dead on deactivation of master switch (For motor sport applications) and fully compatible with all makes of master switch.
- Single button keyless ignition and crank
- Crank inhibit for vehicles with automatic gearboxes, Vehicles destined for export and vehicles where the risk of cranking the engine in gear is high to name but a few.
- Push to pass lights flash (Endurance racing).
- Single or multi head light unit configuration (Zenon and LED compatible)
- Indicator lights current draw Learn.
- Direct Interface with wireless steering wheel switch unit (BodyLogic™ Smart RF).
- On-board Active or Passive Immobiliser*.
- Data link for function control Via CAN.

THE BODYLOGIC™ 1 RANGE COVER ALL THE BASE FUNCTIONS.

This unit is designed to have fixed functions but when used as a “Node” can have a large amount of configurability but currently any configuration and setup must be done at Simtek. It is very simple to use, even when tailor to a customer's requirements but for the professional system designer the unit can be configured to a specific requirement to simplify harness design and manufacture.

Functions covered are: –

- Side lights.
- Dipped beam.
- Main beam.
- Fog or Auxiliary lights.
- Indicator and hazard control.
- Brake lights.
- Horns.
- Ignition (Multiple outputs 4).
- Fuel pumps –Two outputs.
- Cooling fans – Two outputs.
- Batt + for Power point.
- Bat + for Clock.
- Bat + for Radio / Nav equipment.

THERE ARE 10 PRE-DEFINED CHANNELS TO BE USED FOR THE FOLLOWING:

STD 1 – Side lights – Smart output

STD 2 – Dipped beam lights – Smart output.

STD 3 – Main beam lights – Smart output.

STD 4 – Indicators Left – Smart output.

STD 5 – Indicators Right – Smart output.

STD 6 – Fog / Auxiliary lights – Smart output.

STD 7 – Brake Lights – Smart output.

STD 8 – Ignition (Run position) (Max 4 fused outputs).

STD 9 – Crank – Smart output Std

10 – Battery fused Out (Max 4 fused outputs).

THERE ARE 4 OTHER AVAILABLE CHANNELS TO USE AS REQUIRED. WE HAVE SUGGESTED USES AS FOLLOWS:

Spare 1 – Engine control,

- ECU +
- Injector / valve +
- Coil+
- Ancillary +

Spare 2 – Fuel pump,

- Fuel pump
- Lambda heater / lift pump.

Spare 3 – Cooling fan.

OTHER AVAILABLE FUNCTIONS ARE:

RF Control (blip fob with control of lights for parking).

RF Control for switch functions (BodyLogic™ Smart RF)

RF Active Immobiliser

CAN control – This can be used to either take in control inputs or to allow the unit to be used as a relay / Fuse node.

