





Auxiliary Controllers

Climate Control Module 64

Vehicle Data Recorder 66

Gateway Kit 67

ESM Mini Kit 68

Auxiliary Controllers

Climate Control Module



- Controls a vehicle's A/C compressor clutch, heat valve and fans.
- High current digital outputs.
- Dedicated inputs for two analogue temperature sensors – internal and external.
- Pulsed Width Modulation (PWM) for blower fan outputs.
- Automatic and manual modes of operation.
- Integrates control with Ultraview display.
- Configurable input/output.
- Multi-voltage.
- Made in North America.

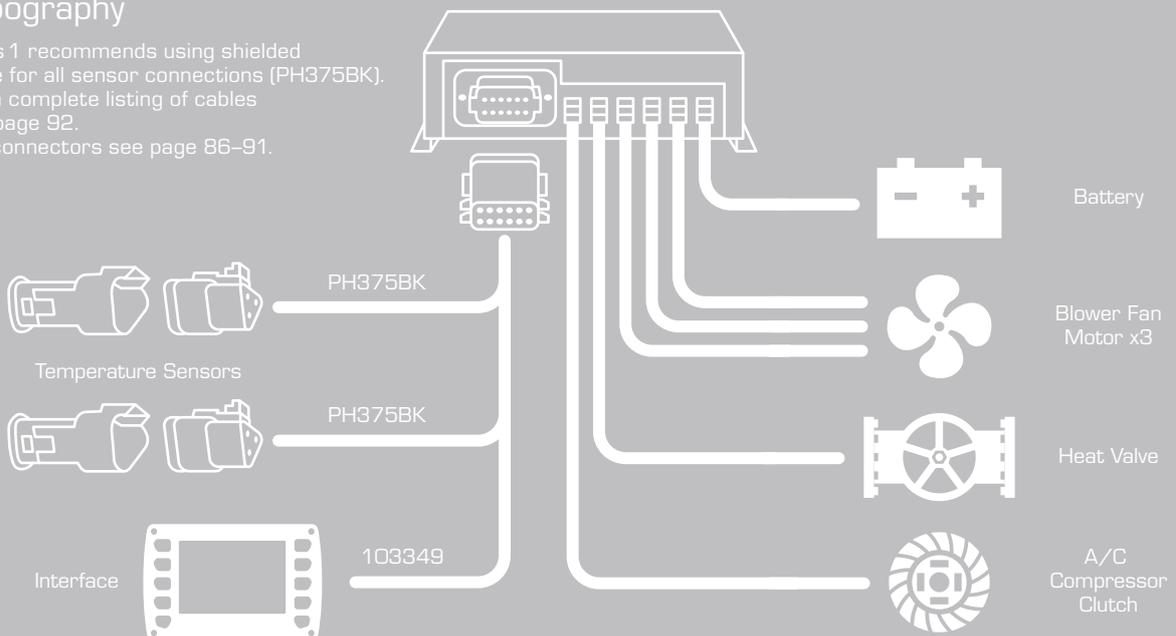
9V
32V

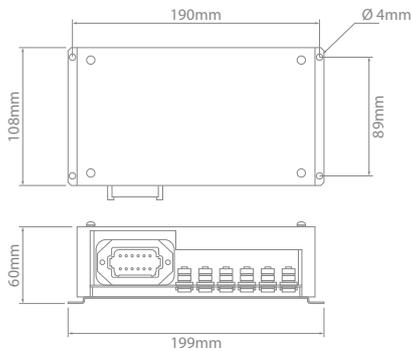
Made in North America

Voltage : 9-32V
 CAN : SAE J1939
 Construction : Powder-coated Steel
 Operating Temperature : -40°C to 85°C

Topography

Class 1 recommends using shielded cable for all sensor connections (PH375BK). For a complete listing of cables see page 92. For connectors see page 86-91.





Climate Control Module

Part No.	Current Draw (mA) *		Max. Output Current Rating (A)			
	@ 13.8V	@ 27.6V	Fan Motors	AC Clutch	Heat Valve	Aux Output
610-00029	72	36	25	15	15	0.25

* Current Draw does not include draw from outputs.

Functionality of this module is integrated into the Supernode II (page 42) with firmware version 9.05 or later.



CONNKIT-CCMODULE



115722



CONNKIT-TEMPSENSOR

Climate Control Module – Accessories

Part No.	Description
CONNKIT-CCMODULE	Connection Kit
115722	Temperature Sensor with mounting clip. Range -30°C – 150°C
CONNKIT-TEMPSENSOR	Connection Kit for Temperature Sensor (115722)

Crimping tools can be found on page 96.



Auxiliary Controllers

Vehicle Data Recorder



9V
32V

IP67

Made in North America

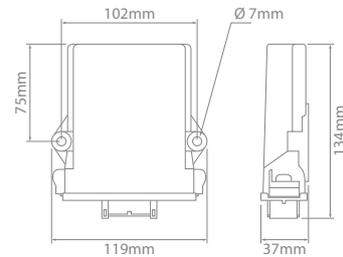
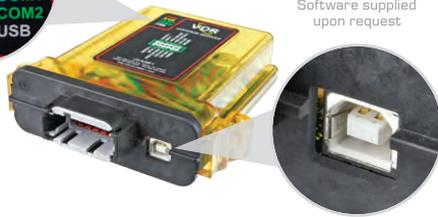
- Utilises SAE J1939 CAN standard to record NFPA required data.
- Retains last 100 hours of stored data in memory.
- Internal real-time clock with 10 year battery back-up.
- Integrates with Seat Belt Warning System (page 34) to record seating data.
- 32-bit ARM processor.
- Software available for quick & easy data retrieval. Supplied upon request.
- USB port for data retrieval via VDR management software.
- Monitors and records Engine RPM, Throttle percentage, vehicle speed, ABS events, transmission range information, parking brake position, master warning position, seatbelt status.
- Made in North America.

Voltage : 9-32V
 Current Draw : 55mA @ 13.8V
 Output : 250mA per Output
 CAN : SAE J1939
 Construction : Polycarbonate
 Ingress Protection : IP67
 Operating Temperature : -40°C to 85°C

LED status indicators



USB port for data retrieval via VDR management software. Software supplied upon request.



Vehicle Data Recorder (VDR)

Part No.	Description
119914	VDR control module



Vehicle Data Recorder – Connection Kits

Part No.	Description
CONNKIT-PDM	Connection Kit
CONNKIT-PDM-PB	Connection Kit – Purple Band Socket

Crimping tools can be found on page 96.

Auxiliary Controllers

- Provides remote connection to compatible devices.
- Multi-carrier 4G LTE connectivity.
- Dual SIM card port (2x Mini 2FF).
- Multiple communication ports.
- Routing capabilities provide secure, reliable communication.
- Triggers alarms and sends SMS messages.
- Built-in GPS.
- Built-in Ethernet and serial connectivity.
- Data usage alerts via email/sms.
- Low power consumption.
- Made in North America.



Voltage : 7-30V
Current Draw : 0.15A
CPU : 32-bit ARM9 400 MHz
NAND : 512MB
RAM : 128MB
Ethernet : 10/100 Base-T RJ45 Ports
Serial : RS-232 (DB9) 115,200bps
Antennas : 4x SMA Connectors
Humidity : 5 to 95% non-condensing
Approvals : FCC/IC, UL HazLoc, PTCRB
Operating Temperature : -40°C to 85°C

Made in North America

7V
30V

Gateway Router

Secure and reliable wireless communication to remote assets. Telstra extranet 4G LTE connectivity with fallback to 3G network.

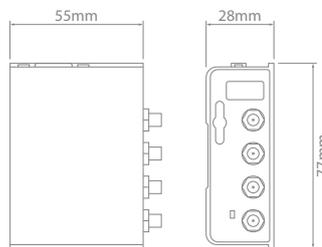
Featuring a web-based event engine that can trigger alarms and send SMS text messages based on real-time operational data.

Reliable local control and alerts of critical events sent to personnel.



★ **Featured**

610-117500



610-ANT-058

Gateway Kit ★

Part No. 610-117500
Description Cellular Gateway Kit

Kit Contents
 1 x Gateway Module (MHS117500)
 1 x Power Cable (MHS041420)
 1 x Mounting Bracket (MHS055040)

610-ANT-058 Antenna, externally mounted



Auxiliary Controllers

ESM Mini Kit



12V
24V

- Electronically controlled switch module with inbuilt circuit monitoring and protection.
- Each output surge protected to 8A.
- 6 inputs, 6 outputs – 12V.
- 5 inputs, 5 outputs – 24V.
- Compact design.
- Save space and installation time.
- Eliminates excess wiring.
- Multi-voltage.
- Epoxy filled for enhanced moisture and vibration protection.

Voltage :	12–24V
Inputs :	6 x 12V, 5 x 24V
Outputs :	6 x 12V, 5 x 24V
Max. Output Current Rating (per output) :	7A
Max. Output Current Rating (total) :	20A
Body :	ABS
Cable Length :	120mm
Operating Temperature :	-40°C to 85°C

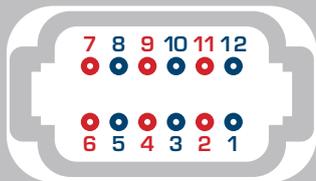
The ESM Mini is a compact, electronically controlled switch module with inbuilt circuit monitoring and protection.

The unit can be used in any application where conventional circuit protection may have been used in the past.

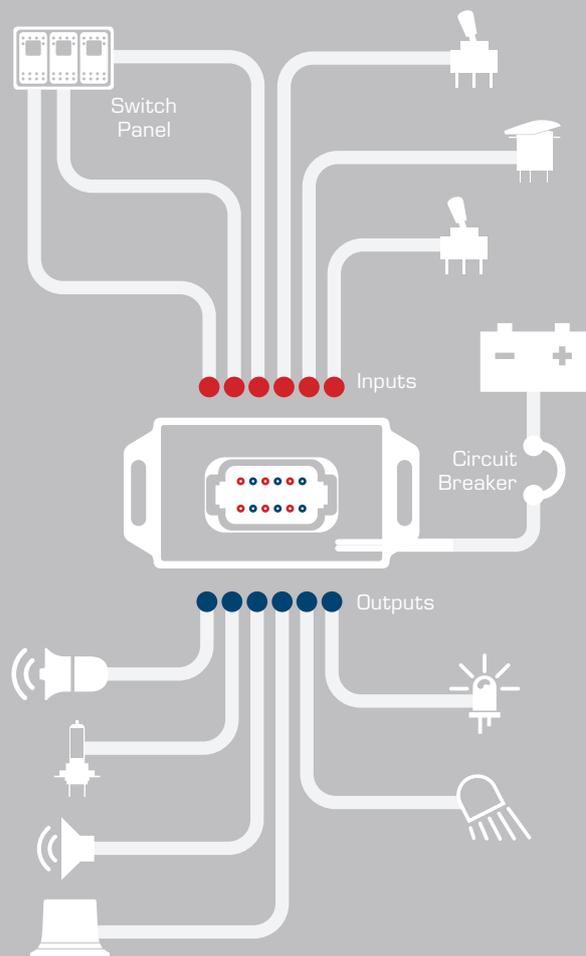
The ESM Mini can be used for any application, from connecting auxiliary lighting off original vehicle tails lights, e.g. Minebar hook up, to monitoring and protecting a range of auxiliary equipment switched off the original vehicle inputs or from after market toggle, rocker switches etc.

If a short circuit or over current condition presents on any of the outputs then the affected output will shut down. This circuit will then cycle 3 times (on/off) and if the over current situation is still present the output will then be locked in the off state until the fault is rectified and the input is reset.

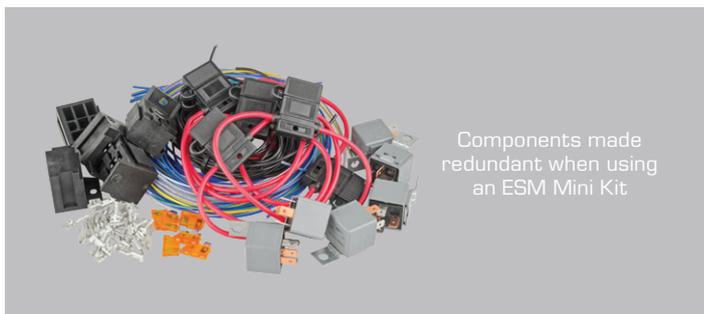
Circuit 1	Circuit 2	Circuit 3
Input - 4	Input - 2	Input - 6
Output - 3	Output - 1	Output - 5
Circuit 4	Circuit 5	Circuit 6
Input - 11	Input - 9	Input - 7
Output - 12	Output - 10	Output - 8



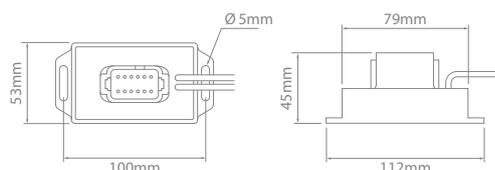
Inductive loads must not be used on the input or output circuits without additional external protection. Failure to do so may result in damage to the unit and will void warranty.



Auxiliary Controllers



★ Featured



ESM Mini Kit ★

Part No. Voltage Switching
ESM006 12-24 Positive

Kit Contents:

- 1 x ESM006 Control Module
- 1 x Connector – DT Series (DT06-12SA)
- 1 x Connector – DTP Series (DTPO4-2P)
- 1 x Connector – DTP Series (DTPO6-2S)
- 8 x Cavity Plug (114Q17)
- 1 x Wedglock – DT Series (W12S)
- 1 x Wedglock – DTP Series (WP2P)
- 1 x Wedglock – DTP Series (WP2S)
- 2 x Pin – Solid (O460-204-12141)
- 2 x Socket – Solid (O462-203-12141)
- 12 x Socket – Solid Green Band (O462-209-16141)



DET12, DET16



HDT48-00



DET-RT



CB255-XX



P-WSBFH/5



BFXX/10

ESM Mini – Accessories & Related Products

Part No.	Description
DET12	Crimping tool. Size 12
DET16	Crimping tool. Size 16
HDT48-00	Crimping tool. Size 12, 16, 20 & 22
DET-RT	Multi-use hook tool
CB255-XX	Circuit breaker – Panel Mount Series Replace 'XX' with desired amperage: 10, 15, 20, 25, 30, 35, 40, 50
P-WSBFH/5	ATC fuse holder kit – 30A Kit contents: 5 x Housing, 5 x Plugs, 10 x Terminals
BFXX/10	ATC/ATO blade fuses, pack of 10 Replace 'XX' with desired amperage: 1, 2, 3, 4, 5, 7.5, 10, 15, 20, 25, 30, 40

