E715 12V BATTERY MONITOR

This is a very easy to fit Unit that monitors the Vehicle's Electrics and alerts the Driver via an Audible / Visual Device that the Battery is becoming exhausted or that the Charging System is becoming faulty.

This Unit is sold with separate Relay / Solenoid to suit the application.

OPERATION:-

The unit monitors the voltage of a 6 cell, 12 volt battery and can control a solenoid and a warning lamp/sounder.

The "low battery" voltage is factory set at 11.1V The "reset" voltage is 13.5V.

If the battery voltage is above the "low battery" voltage, the solenoid is energised and the warning lamp/sounder output is off.

If the battery voltage drops below the "low battery" voltage, the solenoid is de-energised and the warning lamp/sounder output gives an interrupted output. In this state the current drawn by the unit is < 1mA plus the current drawn by the warning lamp/sounder.

At this point:-

- **if the "override" (PIN 5) is connected to a positive voltage 6V to 15V, the solenoid will be energised but the warning lamp/sounder will continue to give an interrupted output. When the "override" is disconnected the solenoid will be immediately de-energised.**

OR

- **if the "ignition switch" (PIN 1) is connected to a positive voltage 2.0V to 15V, the solenoid will be energised and the warning lamp/sounder output will be switched off.**

When the "ignition switch" is disconnected, one of two things can happen

1. **If the battery voltage has risen above the "low battery" voltage, the solenoid will remain energised.**
2. **If the battery voltage is below the "low battery" voltage, there will be a delay of up to 30 seconds before the solenoid is de-energised and the warning lamp/sounder output gives an interrupted output.**

Without using either the "override" or "ignition switch" pins, when the battery voltage rises above the "reset" voltage the solenoid is energised and the warning lamp/sounder output is switched off.

SPECIFICATION

PART No	**E715**
Supply Voltage (Vcc)	**9.0V to 15V**
Quiescent Supply Current	**<1mA**
Battery Low (disconnect) Voltage	**11.1V**
Battery Reconnect Voltage	**13.5V**
Ignition Switch Pin 1	**Input Active High, On >2V, Off < 0.8V or Open Circuit**
Solenoid Connection Pin 2	**Open Collector Switching to Ground 0V, 1A Maximum**
Warning Connection Pin 3	**Open Collector, Switching to Ground 0V, 1A Maximum**
Battery -VE (Ground) Pin 4	**Negative Power and Sense input**
Override Switch Pin 5	**Input Active High, On >6V, Off < 4V or Open Circuit**
Solenoid Connection Pin 6[1]	**Positive Output (Vcc -0.8V) 1A Maximum[2]**
Warning Connection Pin 7[1]	**Positive Output (Vcc -0.8V) 1A Maximum[2]**
Battery +VE (Vcc) Pin 8	**Positive Power and Sense Input**
Dimensions	**94mm x 61mm 36mm**
Weight	**75g**
Fixing	**1 Point, 5mm Hole**

Notes

1: Pins 6 & 7 are internally connected

2. 1A maximum Output based on Unit being wired as per Figure 1

EURO MANUFACTURING AND MARKETING LIMITED
Euro Works, 11-13 High Street, Wem, Shropshire SY4 5AA, England.
Tel: +44 (0) 1939 235073 Fax: +44 (0) 1939 235074
Web Site: www.eurogroup-gb.com OR www.battery-management-voltage-converter.com

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RECOMMENDED WIRING OPTION (FIGURE 1):-

Below is the recommended wiring diagram to reduce to a minimum the voltage drops in the wiring between the battery and the monitor.

PIN CONNECTIONS
1: IGNITION SWITCH
2: SOLENOID -VE
3: WARNING LAMP/SOUNDER -VE
4: BATTERY -VE
5: OVERRIDE
6: SOLENIODE +VE
7: WARNING LAMP/SOUNDER +VE
8: BATTERY +VE

NOTE:
SOLENOID COIL CURRENT 1A MAX
WARNING LAMP/SOUNDER CURRENT 1A MAX

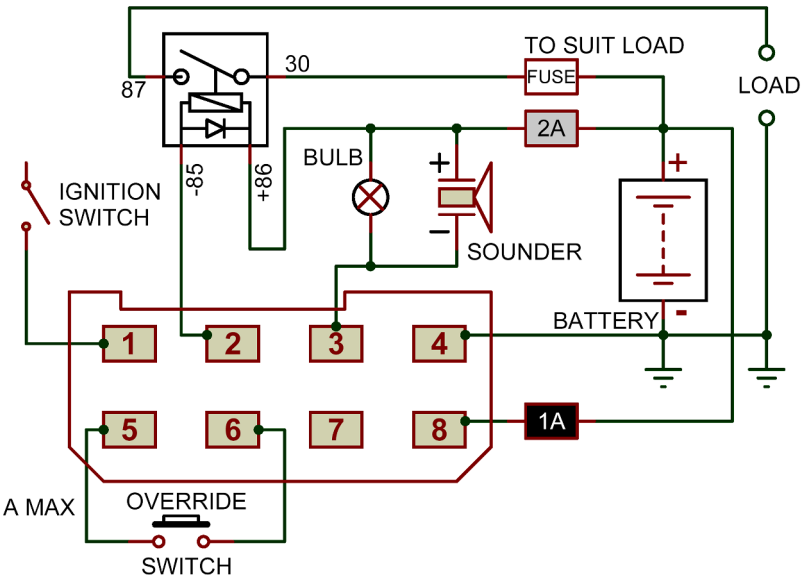

Fig.1

ALTERNATIVE WIRING OPTION (FIGURE 2):

PIN CONNECTIONS
1: IGNITION SWITCH
2: SOLENOID -VE
3: WARNING LAMP/SOUNDER -VE
4: BATTERY -VE
5: OVERRIDE
6: SOLENIODE +VE
7: WARNING LAMP/SOUNDER +VE
8: BATTERY +VE

NOTE:
SOLENOID COIL CURRENT 1A MAX
WARNING LAMP/SOUNDER CURRENT 1A MAX
SOLENOID+WARNING LAMP CURRENT 1A MAX

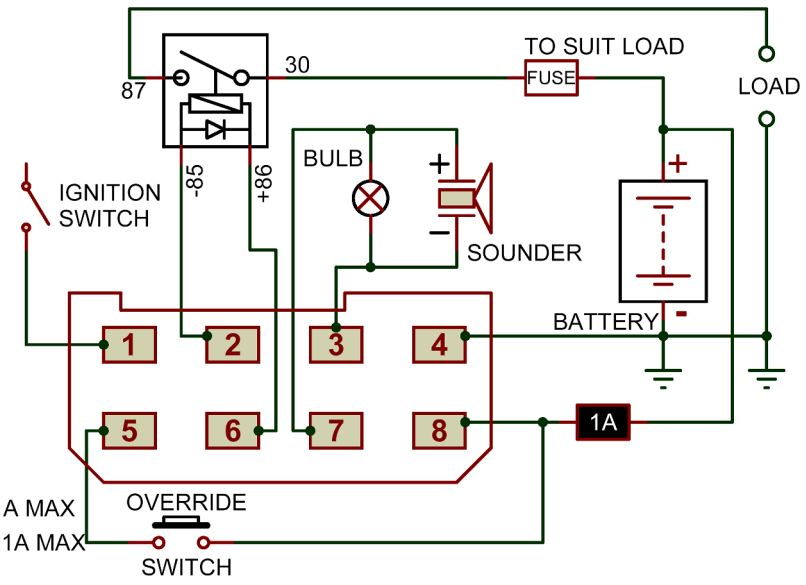

Fig.2

EURO MANUFACTURING AND MARKETING LIMITED
Euro Works, 11-13 High Street, Wem, Shropshire SY4 5AA, England.
Tel: +44 (0) 1939 235073 Fax: +44 (0) 1939 235074
Email: sales@eurogroup-gb.com OR sales@battery-management-voltage-converter.com
Web Site: www.eurogroup-gb.com OR www.battery-management-voltage-converter.com