

# INSTRUCTIONS

## Fuel Sender Damping Module for Digital Dash – DM2

### General

This product fits between a resistive fuel sender and a digital dash (0 – 5V analogue input)

It damps the signal from the sender (we call this “electronic anti-slosh”)

It also allows the digital dash to read a sender that is already connected to a standard analogue fuel gauge.

The unit can also operate a low fuel LED when the fuel reaches a level preset by the 22 turn precision adjuster. (LED fitting is not required to damp the digital gauge)

### Installation

Warning- To prevent short circuits, disconnect battery before starting work..

#### a) Preparation.

1. Locate a suitable mounting location before connecting, where the unit will not be seen and not interfere physically with any moving meter parts.
2. If you are using it, Mount the LED by drilling a hole (5 or 6mm if using the plastic bezel - depending on type)



#### b) Make the connections.

Four connections are required.

- 5V - Connect to the 5V supply provided by the digital gauge / dash.
- GND - Connect to a suitable ground connection on the fuel gauge / dash, or bolt to the vehicle chassis in a convenient place
- Sender - This should go to the connection on the sender that is not grounded.
- DASH - This should be connected to the analogue fuel gauge input on the Dash / Digital gauge

***If the sender is not connected to a standard analogue gauge,  
Connect the enclosed 200 Ohm resistor between “Sender” and “5V”***

#### c) Optional LED connections

- |                                       |                          |                                  |
|---------------------------------------|--------------------------|----------------------------------|
| Method 1 (high resistance when empty) | Red wire to +12V         | black LED wire to “LEDout”       |
| Method 2 (low resistance when empty)  | Red LED wire to “LEDout” | black LED wire to Chassis Ground |

***If your LED lights when it should be off, and is off when it should be on, swap to the other method.***

#### d) Calibration

The Digital Dash / Gauge calibration should be carried out according to the manufacturer's instructions.

The LED Low fuel can be adjusted as follows

With fuel level in the tank at the point where you want the LED to activate, leave the unit for at least 3 minutes to stabilise, then adjust the screw until the LED is just switching on/off The adjustment can be up to 25 turns ! don't worry about going too far, it has a built in clutch.. (turning the adjuster clockwise lowers the resistance at which the LED changes state)

When finished, slide the heatshrink over the calibrated module and warm up with a hot air blower or carefully with a lighter, the heatshrink will shrink onto the module protecting it from short circuits and fixing the adjuster in position.

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