

# Victron's BMV monitoring electric Porsche

Electric driving seems to offer solutions to the negative side effects of mobility, like the emissions. Jack Rickard from the United States (also known from EVTV) is convinced that electric driving is the future. He has done several electric vehicle conversions. His last one is the 'Speedster Part Duh'. This 1957 Porsche 356 Model Speedster is equipped with a BMV-600HS Battery Monitor from Victron Energy.



After several attempts with different battery monitors, Damien Maguire of Ireland suggested Rickard to get a Victron Energy BMV-600HS. They finally got successful: 'We've had good luck with the Victron. It makes the install on the car very easy and does a good job.' Says Rickard about the BMV.



## BMV-600HS

The **BMV-600HS** is a high precision battery monitor. The essential function of a battery monitor is to calculate ampere-hours consumed and the state of charge of a battery. Ampere-hours consumed are calculated by integrating the current flowing in or out of the battery.

One of the advantages of the BMV-600HS is that it only needs one cable: for its own power conversion and measurement. There are also two other types available: the BMV-600S and the BMV-602S.

BMV-600HS: Power supply voltage range of 70 - 350 VDC

BMV-600S: Power supply voltage range of 9.5 - 90 VDC

BMV-602S: Power supply voltage range of 9.5 - 90 VDC

With the BMV-600HS installed in the car, problems (like recharge the car) can be signaled in an early stage.

## Benefits of electric driving

In his [blog](#) Rickard says that there are some serious advantages to driving an electric car:

### Convenience

You don't have to go to the gasoline station anymore: you just plug in to a wall socket at home. The utility company bills you monthly with all the other electricity you use.

### Lower costs

Electric driving costs about 1.24 cents per kilometer, you pay about 6.25 cents per kilometer for gasoline.

### No emissions

An electric car does not produce CO2 and is therefore a lot better for the environment.

## Electric charging stations

At the moment in The Netherlands there are not many charging stations for electric cars. In the future more charging stations will be built, for example in underground car parks. In 2011 there will be standards for the charging stations.



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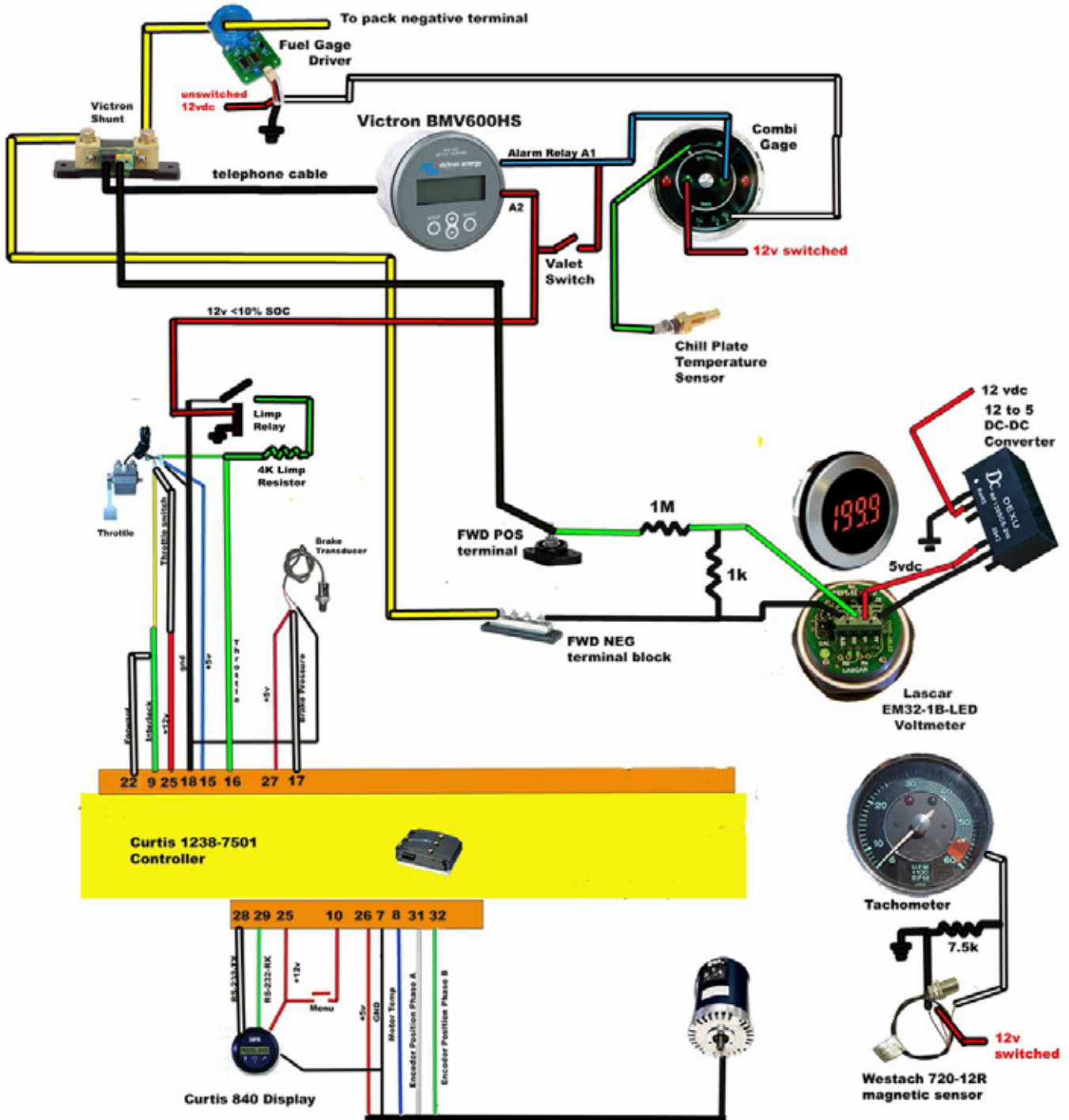
Photo 1: Inside of the 'Speedster Part Duh', with the BMV-600HS installed in the dashboard.



Photo 2: The vehicle conversion of the 1957 Porsche 356, named 'Speedster Part Duh'.



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**Electric Speedster Instrumentation and Control Diagram**

Scheme 1: Schematic overview of the different installed instrumentation in the 'Speedster Part Duh'.