

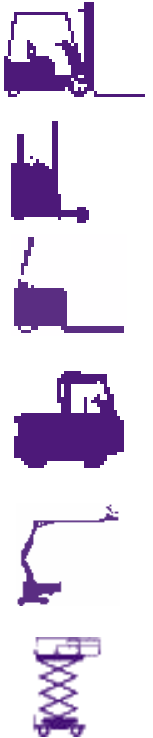
# Powergauge

SEVCON



## STANDARD FEATURES

- ◆ Industry standard package (52mm)
- ◆ Microprocessor controlled
- ◆ Automatic battery voltage detection (24 – 80 volts)
- ◆ Automatic reset
- ◆ 10 segment LED display
- ◆ Reverse polarity protection
- ◆ LCD hours count (option)
- ◆ Lockout relay
- ◆ Discharge curve selector



## Cost Effective Battery Monitoring

The battery on an electric vehicle is a costly component, which needs both maintenance and protection to provide the optimum cycle time and overall battery life. With these critical considerations in mind Sevcon has developed the “**Powergauge**” product range.

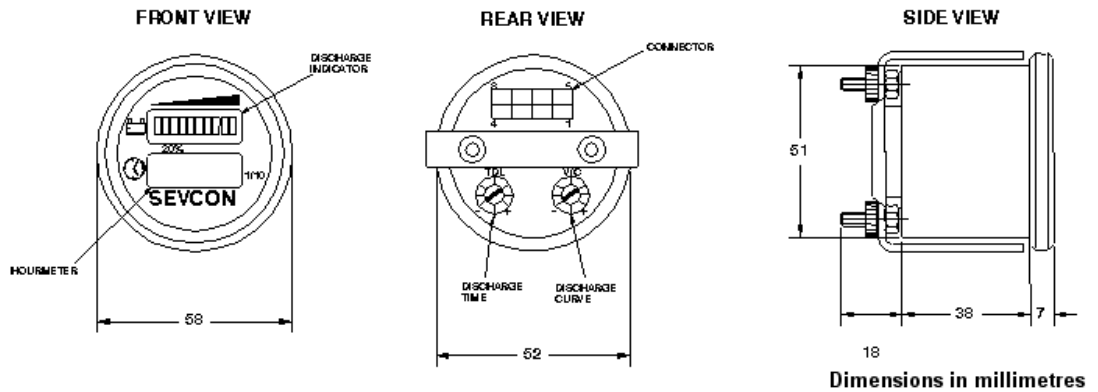
The “**Powergauge**” is a comprehensive range of Battery Discharge Indicators available with several optional features to maximise the productivity of you vehicle and minimise the potential for damage from operating outside the batteries optimum parameters.

The development of this product range has been a result of close collaboration with customers, maintenance engineers and battery experts. This has resulted in a range of products suitable for any application and budget. With user defined features available as options the customer gets exactly what they require,

- **Solid-state display** - All the **Powergauge** products are microprocessor controller and have no moving parts, maximising the reliability for the customer.
- **Tamper proof** – The hour meter is stored in EEPROM and remains regardless of connection to the power supply.
- **Low voltage cut-out** – The optional internal relay provides a cut-out at a discharge level of 1.7V per cell. (Approx. 80% discharged). This can operate warning alarms or disable functions such as lift pump motors.
- **Voltage auto-selection** – The microprocessor automatically detects the nominal system voltage range and applies the correct discharge algorithm. There is also the optional discharge curve selector, to allow optimisation of the **Powergauge** for you application. As the discharge curve selector is adjusted the value is displayed on the **Powergauge** using either the LEDs or the hourmeter, depending upon the model, to allow easy and accurate selection.

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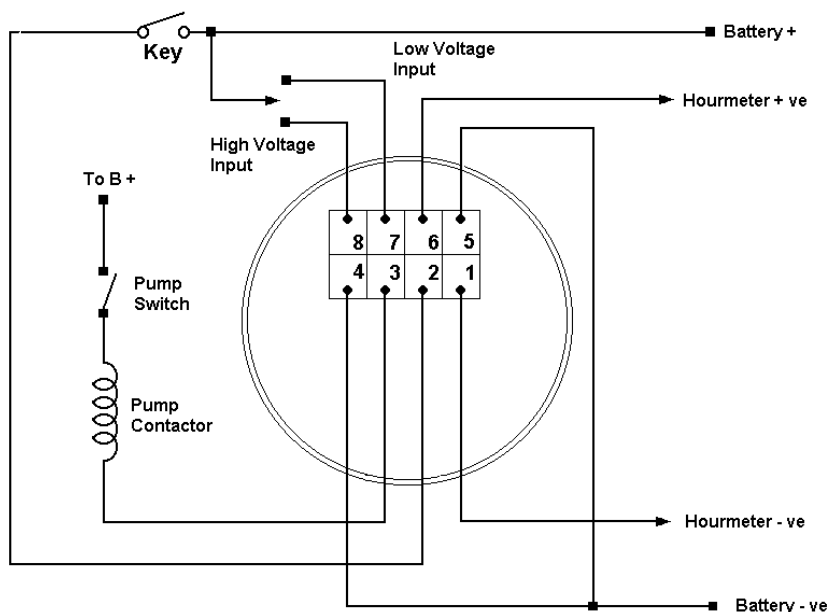
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## POWERGAUGE RANGE

| Part Number | BDI | Hourmeter | Lockout Relay | Discharge Selector |
|-------------|-----|-----------|---------------|--------------------|
| 900/20032   | ✓   | ✓         | ✓             | ✓                  |
| 900/20033   | ✓   |           | ✓             | ✓                  |

## Outline specification

- ◆ Protection IP65
- ◆ Voltage 24 v– 80v
- ◆ Operating temperature -40 to +85 degrees centigrade
- ◆ Storage temperature -65 to +150 degrees centigrade
- ◆ Reset voltage 2.09 volts per cell
- ◆ Lockout threshold 1.70 volts per cell
- ◆ Relay rating :- 2 amps, 250 volts

This product bulletin is for outline specification only .For specific application data, the full engineering specifications available from Sevcon should be used.  
Sevcon is constantly striving to improve its products and reserves the right to alter specifications without notice

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