**DESCRIPTION**

Model 906 is an inexpensive, one piece, easy to install battery fuel gauge. It is completely solid state and provides a reliable, accurate, and easy to read display of battery state-of-charge. Model 906 is available in six panel mount packages and a printed circuit board mounted module for custom dash panel applications.

**APPLICATION**

This battery fuel gauge features Curtis patented technology and is ideal for golf cars, commercial cleaning equipment, mobility aids, electric bicycles, electric marine motors, medical devices, and similar equipment.

**QUALITY COMPLIANCE**

Manufactured under ISO 9001 certified Quality Management system. CE certified.

---

### FEATURES

- All principal circuits are integrated in a single chip for long-life reliability.
- A 10-bar LED displays the state-of-charge successively, bar by bar, from full to empty.
- At 70% depth of discharge, a flashing LED signals an “energy reserve” alert.
- At 80%, alternately flashing LEDs provides an “empty” status warning.
- Model 906 is compact and easily installed in panel cutouts as small as 36.8 X 24.1 mm, with as little as 35 mm behind panel clearance needed, see dimensions of various case styles.
- Recognizes improperly charged battery.
- Keyswitch activated LED display (state-of-charge is monitored as long as 906 is connected to battery).
- Memory allows gauge to recall state-of-charge whenever battery is disconnected.
- Three possible reset methods:
  1. **Open Circuit Reset (OCR):** Upon reconnection of a battery the gauge will reset if it measures 2.09 volts/cell or higher (example “B” profile) (for units with memory option).
  2. **High Voltage Reset (HVR):** Gauge must measure >2.35 volts per cell for 6 continuous minutes during charging (example “B” profile).
  3. **Charge Tracking Reset (CTR):** Display tracks charge level during opportunity charging (requires gauge to be connected to battery when charging).

### OPTIONS

- The Output Signal option causes the voltage on pin 3 to drop from 5 to 0 volts at 80% discharge. It can be used to signal another component or to allow for the disabling of a specified vehicle function, insuring against abusive deep discharge conditions. The Output Signal can also be used to drive the Curtis 1178 Relay Module.
- Special models and custom panels are available.

### SPECIFICATIONS

- System Voltages: 12V, 24V, 36V, 48V
- Operating voltage: +/-25% of nominal voltage
- Operating temperature: -40°C to +85°C
- Storage temperature: -50°C to +90°C
- Shock & Vibration: Meets SAE J 1378
**MODEL 906**

**DIMENSIONS mm**

**Case Style T**

![Diagram of Case Style T]

**Case Style D**

![Diagram of Case Style D]

**Case Style Y**

![Diagram of Case Style Y]

**NOTE:** 3/16” fast on spade terminals.

**NOTE:** Equivalent to Delphi-Packard connector P/N 15336035 4-pin.
Case Style Z

NOTE: 1/4" fast on spade terminals.

Module P

Case Style R

NOTE: 1/4" fast on spade terminals.

NOTE 2.0: OEM's are supplied with hex nuts and lock washers only. They do not receive thumbnuts.
MODEL 906

MODEL NUMBER ENCODING

Determine your model number by selecting the correct attribute for each item from the charts provided. Choose the appropriate letter that corresponds to the proper specification. Enter the code sequentially per the example below.

Example: Model 906 D 24 M C D A O

1. Case Styles
   - T
   - D
   - Y
   - Z
   - P
   - R

2. Voltage Options
   - 12
   - 24
   - 36
   - 48

3. Reset Profile Options
   - Letter Code with Memory Option
     - K
     - J
     - Y
     - N
     - E
     - T
     - L
     - D
     - B
     - H
     - C
   - Letter Code without Memory Option
     - N/A

4. Discharge Profile Options
   - Letter Code
     - G: Full 1.97 Empty 1.75
     - H: Full 1.97 Empty 1.70
     - J: Full 1.97 Empty 1.63
     - K: Full 2.01 Empty 1.65
     - L: Full 2.10 Empty 1.92
     - M: Full 2.00 Empty 1.83
     - N: Full 2.04 Empty 1.73
     - P: Full 2.08 Empty 1.98
     - R: Full 2.02 Empty 1.90
     - T: Full 2.03 Empty 1.90
     - V: Full 1.98 Empty 1.85
     - W: Full 2.02 Empty 1.85
     - X: Full 1.95 Empty 1.75
     - Y: Full 2.00 Empty 1.90

5. Output Options
   - Letter Code
     - A: None
     - B: Output + Memory
     - C: Output + Memory + CTR
     - D: 5 ± 0.5V above empty 0 to 0.1 V at empty 10K Ω impedance
     - M: Memory option

6. Special Options
   - Letter Code
     - A: (TBD)
     - G: Tri-color LED array

7. Artwork Options
   - Letter Code
     - O: Curtis
     - N: None

Note: This gauge is not intended to measure the state-of-charge of batteries subject to extended periods of inactivity since it does not account for self-discharge effects. Consult factory for details.

WARRANTY Two year limited warranty from time of delivery.
When above the Voltage Reference line, the vehicle is opportunity charging; when below, the vehicle is using energy.