

Instruction

TCDL - HXXX Series

Battery Indicator



Instructions for Battery Indicator

Our model TCDL is an accurate, reliable, convenient to install and display battery state-of-charge "fuel gauge". Model TCDL is available in five panel mount packages and a printed circuit board mounted module for custom dash panel applications.

Technical Specifications

System Voltages: 12V, 24V, 36V, 48V, 72V, 96V, 120V, 144V

Operating voltage: +/-25% of nominal voltage

Operating temperature: -40°C to +85°C

Storage temperature: -50°C to +90°C

Shock & Vibration: Meets SAEJ 1378

Features

1. All principal circuits are integrated in a single chip for long-life and reliability.
2. A 10-bar LED displays the state of charge successively, bar by bar, from full to empty.
3. At 70% depth of discharge (30% S.O.C.), a flashing LED signals energy reserve alert.
4. At 80% discharge, alternately flashing LEDs provides an "empty" status warning.
5. The TCDL recognizes an improperly charged battery.
6. High Voltage Reset-HVR Gauge must measure 2.35 volts per cell for 6 continuous minutes during charging.
7. The key switch drives the LED and control pin #3. The LED does not display when the control pin #3 outputs 0V, so when pin #3=0V to shut off the electric equipment, the LED will also not display.

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

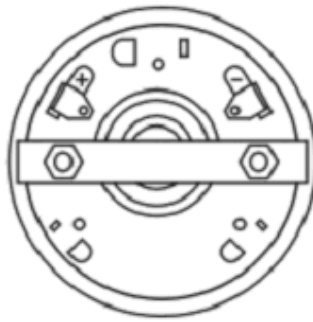
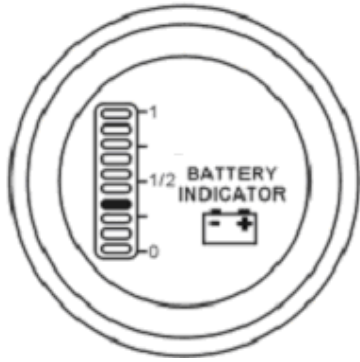
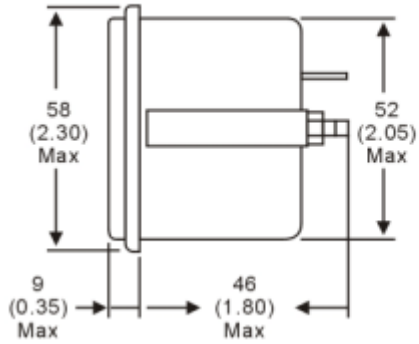
Options

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.

Mode Description

TCDL-H



Schematic Diagram

