SOLID STATE 'FUEL' GAGE HOUR METER & CONTROLLER

803 SERIES





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DESCRIPTION

Curtis Model 803 combines in one instrument a completely solid state battery discharge indicator, an LCD hour meter and lift lockout, housed in a 52mm case. Void of moving parts, this combination instrument is exceptionally reliable even in severe operating environments.

WARRANTY One year from date of delivery.

Application

Model 803 is a combination gage ideally suited for electrically powered vehicles.

'Fuel' Gage Features

- Multicolor 10-bar LED displays state of charge (5 green, 3 yellow, 2 red LEDs).
- Flashing red LED signals "energy reserve" alarm at 70% discharged.
- Double flashing red LEDs signal "empty" alarm at 80% discharged.
- Normally closed relay opens at 80% discharge for lift lockout. This unique holding relay will only lock out at the end of a lift cycle.
- · Recognizes improperly charged battery.
- Keyswitch activated LED display (Fuel gage electronics are energized as long as they remain connected to the battery).
- · Wide range adjustable discharge profile.
- Dual reset methods in each gage: Open Circuit Reset for vehicles that exchange batteries and Charge Tracking Reset for vehicles whose batteries remain connected to the gage during recharge.

Hour Meter Features

- Monitors use-time throughout the equipment's lifespan.
- Records and displays up to 99,999.9 hours on its LCD, rolls over and continues to count and display.
- Hour meter LCD remains on as long as battery is connected.
- Stores latest total in EEPROM nonvolatile memory, without need of power.
- Operates and displays in temperatures from -40°C to +65°C under harsh conditions of vibration, shock, moisture and dust.

System Voltages

Available in single voltages from 12 VDC to 80 VDC, or in dual voltage of 24/36, 36/48, 24/48 or 72/80 VDC. Operating range is \pm 25% of nominal voltage.

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Technical Specifications

Hour meter accuracy:	±0.1%
Operating temperature:	-40°C to +65°C
Shock & vibration:	Meets SAE J 1378
Humidity:	95% RH (non-condensing) at +38°C
LCD character height:	5mm
Mating connector:	Molex 8 pin, 39-01-2085
Discharge range:	Empty from 1.57 volts/cell to 1.93 volts/cell
Reset levels:	Open circuit reset (OCR) at 2.09 volts/cell Charge Tracking Reset (CTR) tracks battery recharge

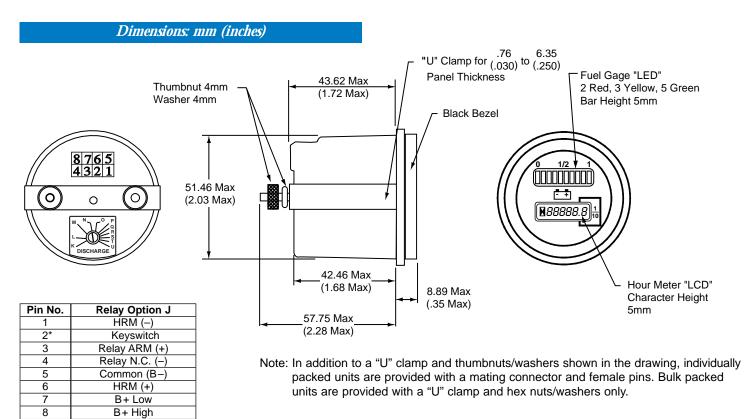
Model Number Description

803 RB CASE STYL	E	2448 Voltage	B RESET TYPE /LEVEL	C DISCHARGE PROFILE	J OUTPUT	3zzO OEM CODE
RB = Round w/blac	(52mm) :k bezel	12 2436 2448 3648 7280	B = CTR/OCR (3zzO) = HVR/OCR (1zzO/2zzO) where OCR=2.09vpc HVR=2.35vpc	C=Adjustable 1.57vpc to 1.93vpc at empty	J = N.C. holding relay Contact rating=3 Amps when continuously closed, 1 Amp when opening. K=N.C. relay Y=N.O. relay contact rating=1 Amp	(2zzO and 1zzO are earlier versions) O= Curtis logo

Options & Accessories

15369002 - INSTALLATION KIT

Includes a pre-assembled mating connector with over 5" of crimp-connect terminated wires and an installation booklet.



*Keyswitch turns on "fuel gage" display and enables the hour meter. To accumulate time in the hour meter one or both of the HRM+ and HRM– inputs must be connected.