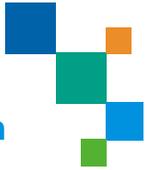




CURTIS

Instrumentation



Color Vehicle Instruments

Model 840



Model 840

Serial Data Display

Curtis Model 840 integrates seamlessly with Curtis motor controllers and displays critical vehicle parameters such as battery state-of-charge, operating hours and service/maintenance status. Easily readable and available in 3 LED or 6 LED configurations, Model 840 can communicate with Curtis motor controllers using both the "Spy" and CANopen formats.

FEATURES

- ▶ Available with "Spy" or CANopen communication protocols allows use with broad range of controllers.
- ▶ Attractive, easy-to-read, 8 character dot matrix Liquid Crystal Display enhances the look of any vehicle.
- ▶ Two display versions available:
- ▶ Three LEDs: Green to indicate that hour meter is being displayed; Amber to indicate that battery state-of-charge is being displayed; and Red to indicate that a fault has occurred.
- ▶ Six LEDs: 3 Green, 1 Yellow and 1 Red to indicate battery state-of-charge; and 1 Red to indicate that a fault has occurred.
- ▶ Standard models display information from Curtis motor controllers including hours of use, battery state of charge and error/diagnostic messages.
- ▶ Interfaces directly to Curtis motor controllers and displays various system parameters.
- ▶ Molded-in rear Molex style connector provides a low-cost, rugged and reliable installation.
- ▶ Front sealed (IP65) for use in harsh environments.

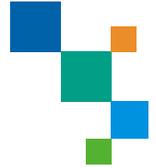
Options:

- ▶ Heater version available for freezer applications (heater needs to be powered by +24 or +36 VDC).
- ▶ Backlighting for reading in low-lit environments.
- ▶ 6 o'clock or 12 o'clock viewing angles.

See a 360° view of the 840 at:
curtisinstruments.com/360view



Model 840



Serial Data Display

SPECIFICATIONS

Display

8-character, alphanumeric, dot-matrix LCD with optional backlighting.

Operating Voltage Range

015R = 12.0 to 15.0 VDC

024R = 18.0 to 30.0 VDC

Operating Temp. Range

-10°C to +70°C (Standard Model)

-40°C to +70°C (Freezer Model)

Storage Temp. Range

-40°C to +70°C

Shock & Vibration

Meets SAE J 1378 (Jul 98)

Enclosure Protection

IP65 (Face), IP40 (Rear)

Molex 8-pin Mating Information

Connector: 39-01-2085

Terminal (18-24 AWG): 39-00-0039

Terminal (16 AWG): 39-00-0078

Regulatory Approvals

UL, CE, RoHs

MODEL ENCODEMENT

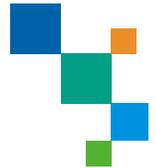
Model	Housing	Operating Voltage	Temperature Rating	Backlighting	Input	LED #	Logo
840	R	015R	S	N	A	101	O
		015R = 12VDC	S = -10°C to +70°C	N = No B/L	A = Spy	101 = 3 LED, 12 o'clock LCD	O = Curtis
		024R = 24VDC (CAN version only)	F = -40°C to +70°C	B = Backlit	C = CAN	102 = 6 LED, 12 o'clock LCD	N = No Logo
						103 = 3 LED, 6 o'clock LCD	
						104 = 6 LED, 6 o'clock LCD	

OPERATING CURRENT

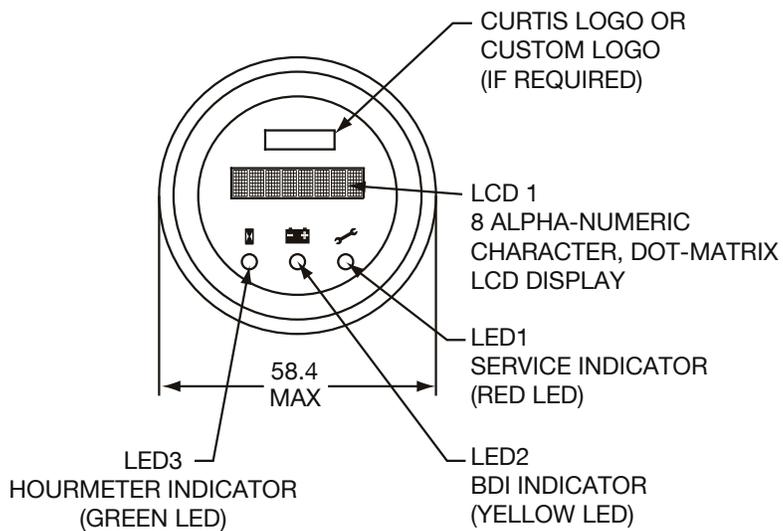
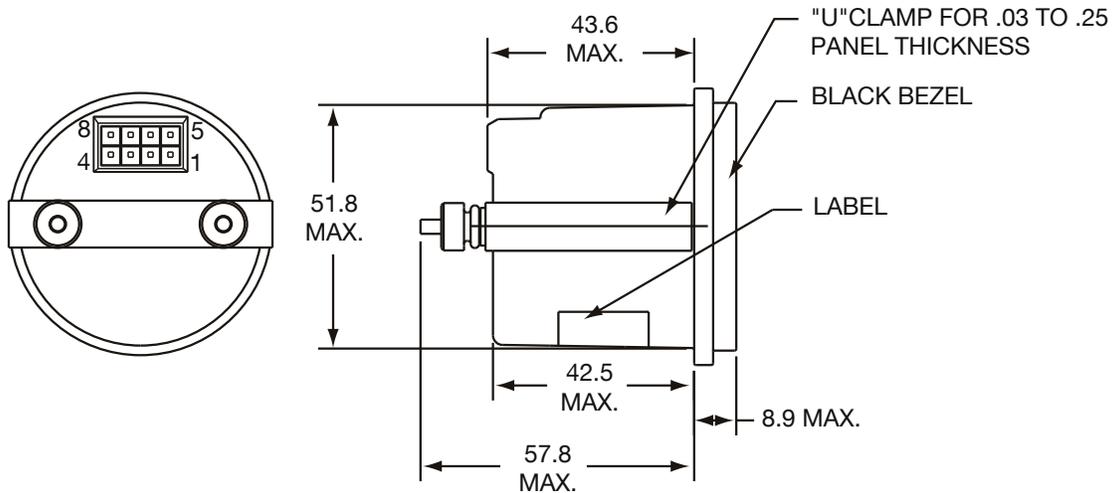
Signal Name	15V Models		24V Models	
	Typical (mA)	Max. (mA)	Typical (mA)	Max. (mA)
B+ Heater (+24V)	133	180	133	180
B+ Heater (+36V)	141	190	141	190
PWRIN (no backlight)	26	39	26	39
PWRIN (w/backlight)	43	66	43	66

Model 840

Serial Data Display



DIMENSIONS mm



CONNECTOR PINOUT

Pin Number	Function	
	"Spy" Version	CAN Version
1	No Connect	CAN Hi
2	No Connect	CAN Lo
3	B+ (Heater) 24VDC	B+ (Heater) 24VDC
4	B+ (Heater) 36VDC	B+ (Heater) 36VDC
5	Power In +	B+ (Supply)
6	Rx (Receive Data)	No Connect
7	No Connect	No Connect
8	B-	B-

NOTE: In addition to a "U" clamp and thumbnuts/washers shown in the drawing, individually packed units are provided with a mating connector and female pins. Bulk packed units are provided with a "U" clamp and hex nuts/washers only.

WARRANTY Two year limited warranty from time of delivery.

The Curtis Difference
You feel it when you drive it



is a trademark of Curtis Instruments, Inc.

Specifications subject to change without notice

©2015 Curtis Instruments, Inc.

50102 REV F 10/15