

SERIAL DATA DISPLAY

MODEL 840



DESCRIPTION

Displays various system parameters, such as battery state-of-charge, operating hours or maintenance status from a Curtis motor controller or other serial communication source.

APPLICATION

Curtis Model 840 is ideal for use in material handling vehicles such as pallet trucks, walkies, stackers and order pickers.

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.

MODEL 840

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 CHART

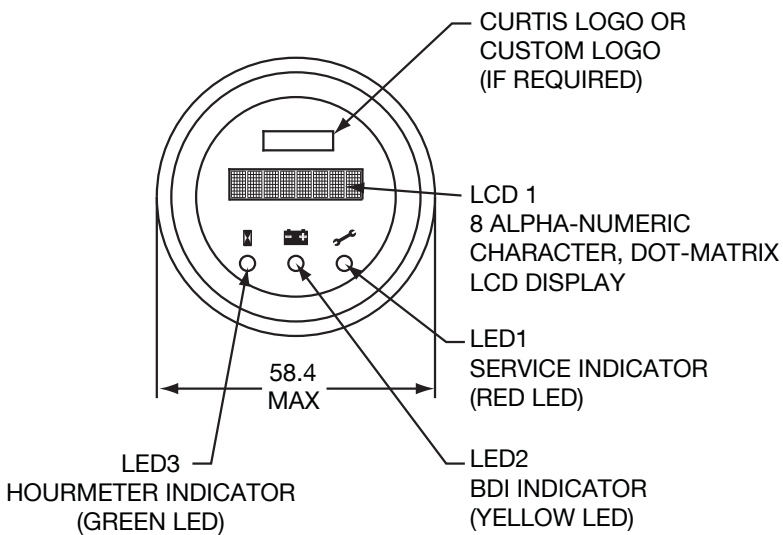
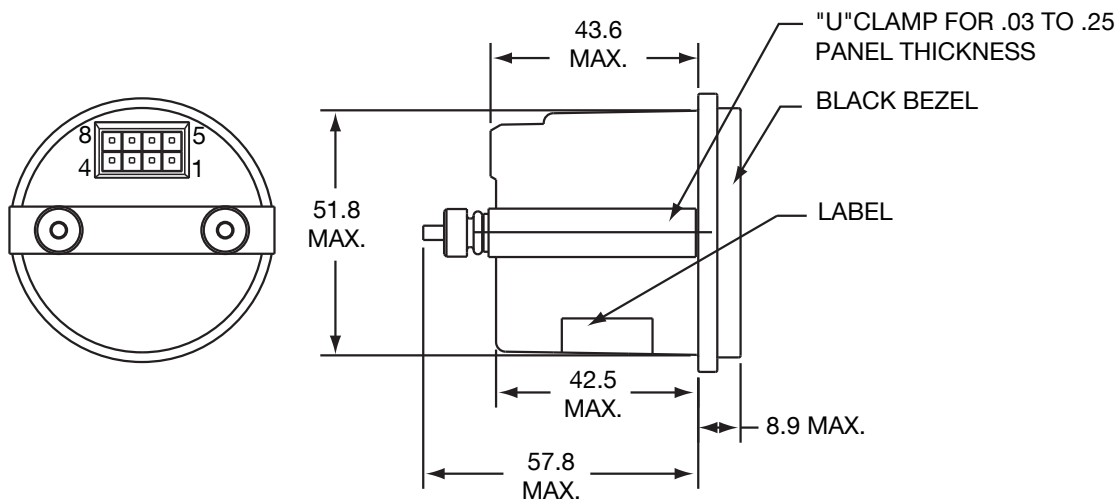
Model	Housing	Operating Voltage	Temperature Rating	Backlighting	Input	LED #	Logo
840	R	015R	S	N	A	101	O
		015R = 12VDC	S = -10°C to +70°C	N = No B/L	A = Spy	101 = 3 LED, 12 o'clock LCD	O = Curtis
		024R = 24VDC (CAN version only)	F = -40°C to +70°C	B = Backlit	C = CAN	102 = 6 LED, 12 o'clock LCD	N =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

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.

