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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Battery "Fuel" Gauge

Model 906











Battery "Fuel" Gauge



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. 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.

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).
 - Charge Tracking Reset (CTR): Display tracks charge level during opportunity charging (requires gauge to be connected to battery when charging)

OPTIONS

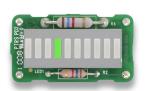
- The Output Signal option causes the voltage on pin 3 to drop from 5 to 0 volts at 80% discharge. It can be used to signal another component or to allow for the disabling of a specified vehicle function, insuring against abusive deep discharge conditions. The Output Signal can also be used to drive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

See a 360° view of Model 906 at: curtisinstruments.com/360view



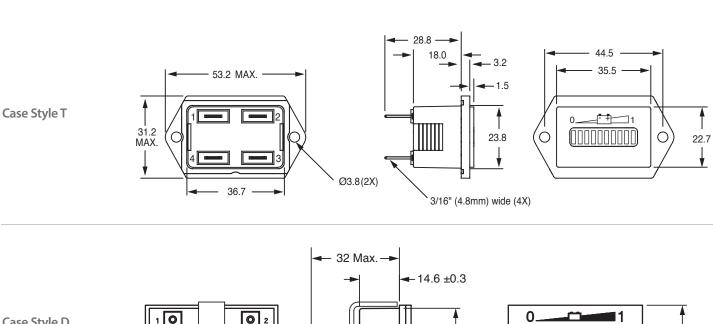




Battery "Fuel" Gauge

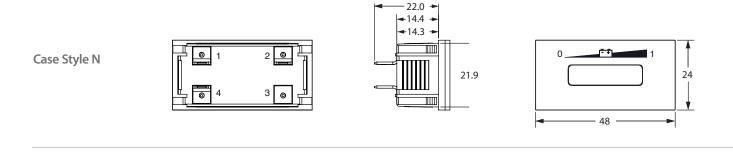


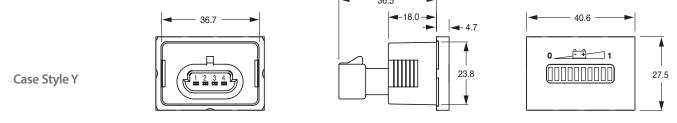
DIMENSIONS mm



Case Style D

10
0
2
22 ±0.2
22 ±0.2
4 ±0.3





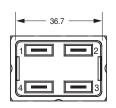
NOTE: Equivalent to Delphi-Packard connector P/N 15336035 4-pin.

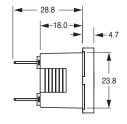
Battery "Fuel" Gauge

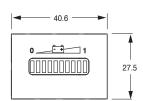
DIMENSIONS mm continued



Case Style Z

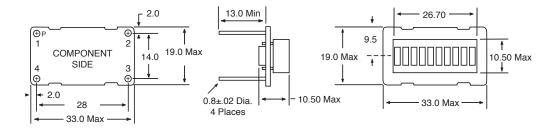




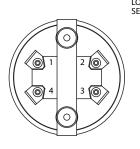


NOTE: 1/4" fast on spade terminals.

Module P

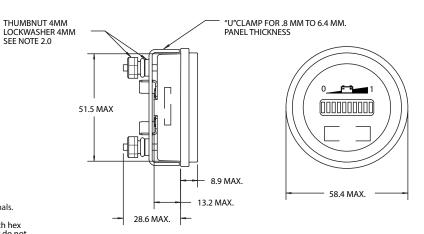


Case Style R



NOTE: 3/16" fast on spade terminals.

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



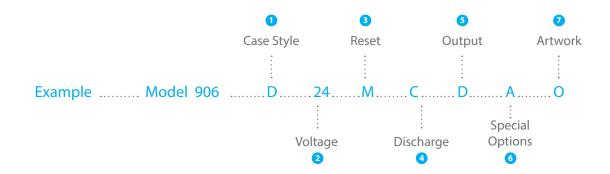
Pin	Function
PIN 1	B+
PIN 2	B-
PIN 3	Output Signal + or No Option
PIN 4	Keyswitch +

Battery "Fuel" Gauge



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.



O CASE STYLES

Ν

Р

R

Τ

TX

Υ

Ζ

D DIN case—rectangular Hex bezel w/1/4" spade terminals (enGage I) J Hex bezel w/Packard connector (enGage I)

DIN case—

rectangular, snap-fit

Pin mount (module)

52mm Round

bezel & case (same as 700Q) Hex bezel

w/3/16" spade terminals (enGage I) Hex bezel

w/3/16" spade terminals (old T case) Rectangular bezel

w/Packard connector (enGage I)

Rectangular bezel

w/1/4" spade terminals (enGage I)

OPTIONS

3 RESET PROFILE OPTIONS

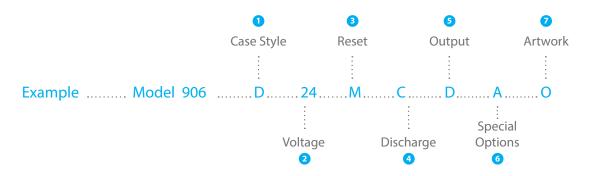
12
24
36
48

Profile with Memory Option	Profile without	Volts Per Cell			
	Memory Option	OCR	HVR	CTR Full	CTR Empty
K		1.928	2.167	2.167	2.10
	J	N/A	2.167		
Υ		2.083	2.167	2.167	2.10
N		1.980	2.230	2.230	2.10
	Е	N/A	2.230		
Т		2.028	2.280	2.28	2.10
	L	N/A	2.280		
D		2.060	2.320	2.32	2.10
	Р	N/A	2.320		
В		2.090	2.350	2.35	2.10
	Н	N/A	2.350		
С		2.135	2.400	2.400	2.10
	М	N/A	2.400		
	F	N/A	2.416		

Battery "Fuel" Gauge



MODEL NUMBER ENCODING continued



O DISCHARGE PROFILE OPTIONS

Letter	Volts Per Cell		
Code	Full	Empty	
G	1.97	1.75	
Н	1.97	1.70	
J	1.97	1.63	
K	2.01	1.65	
L	2.10	1.92	
M	2.00	1.83	
N	2.04	1.73	
Р	2.08	1.98	
Q	2.10	1.88	
R	2.02	1.90	
S	2.08	1.85	
Т	2.03	1.90	
V	1.98	1.85	
W	2.02	1.85	
Х	1.95	1.75	
Υ	2.00	1.90	

3 OUTPUT OPTIONS

Letter Code	Signal
А	No option
B*	Both output & memory options
C*	Both output & memory options and CTR reset instead of HVR
D	Output option only
М	Memory option only

^{*} option is for micro versions only

6 SPECIAL OPTIONS

Letter Code	Options
А	Red LED array
G	Tri-color LED array

ARTWORK OPTIONS

Letter Code	Options
0	Curtis
N	No Logo

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.



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Specifications subject to change without notice

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The Curtis Difference

You feel it when you drive it

50020 Rev M 12/17