



GIGAVAC is pleased to introduce the E-Trak Electrical System Monitor for condition based maintenance.

The E-Trak system is designed to reduce maintenance cost by continuously monitoring key aspects of the vehicle's electrical system and alerting the user of maintenance requirements.

E-Trak monitors the batteries, the starter cycle, the alternator and cables. Can be combined with contactor/relay for automatic disconnect functionality.



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Rev 2	10/1/2014	© 2014 GIGAVAC, LLC
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		E-Trak

Electrical System Monitor

Key Features

Rating	Up to 600A continuous duty
Inrush / Overload	1500A for 10 seconds
Environmental	IP67, SAE J 1455
Temperature	-40°C to +85°C
High Shock and Vibration	For rugged environments, off-road and tracked vehicles
Installation	Not direction sensitive
Connector	Deutsch DTM04-12P
Made in USA	Designed and manufactured in the USA



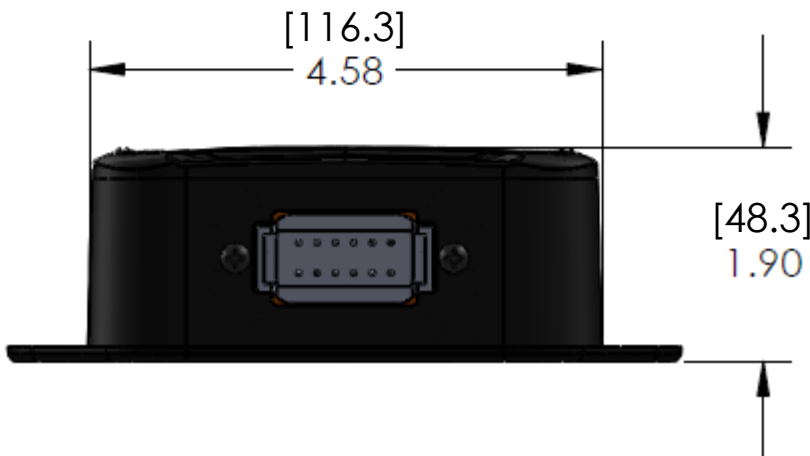
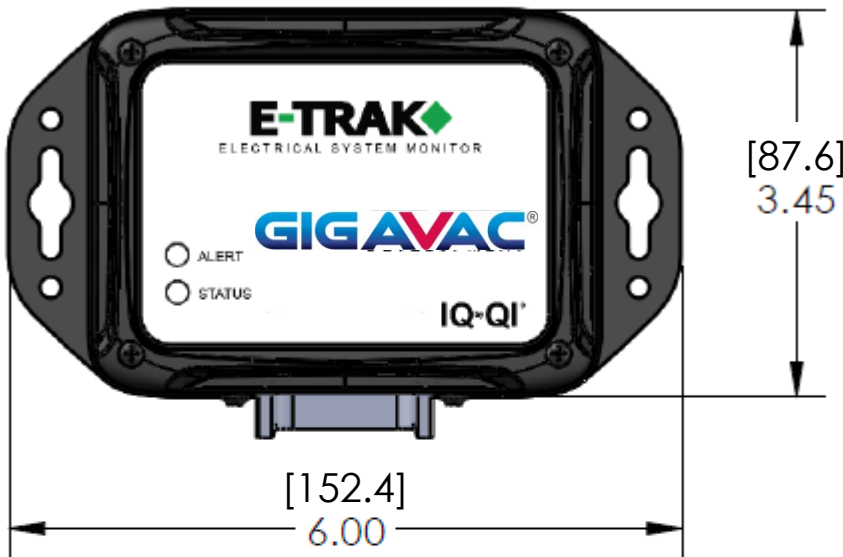
Functions / Electrical System Monitor

Battery Conditions	State of Health (SOH) and State of Charge (SOC)
Abnormal Current	Parasitic loads
Starter Prognosis	Power and Energy Profile, Trend Analysis, Cycle Count and Total Time
Cables	Abnormally high voltage drop of Battery/Alternator/Starter due to Corrosion or Loose Connections
Alternator	Over/Under charging and Abnormal Waveform
Alert Indicator	Red LED
Condition Based Maintenance	Reduced Cost versus schedule based maintenance
Standby Current	Under 15mA at 12V and 24V

Optional features

Integrated contactor/relay	No driver action required / Automatic Open Close Open contactor when Parked / Closes Contactor with key ON
J1939 Communication	Advanced diagnostics





E-TRAK pinouts

- 1 CAN+ (reserved)
- 2 CAN- (reserved)
- 3 RS-232 RX (only for PC interface)
- 4 Key Ignition (VKEY)
- 5 Contactor "A2 +" - (VBAT)
- 6 Contactor "A1 -" - (VOUT)
- 7 RS-232 TX (only for PC interface)
- 8 Optional in/out
- 9 Battery negative (-) (ground)
- 10 Coil Common (BLK)
- 11 Coil 2 (ORG)
- 12 Coil 1 (RED)

