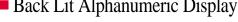


Electronic Monitoring System/Controller



Model EMS547

- Field Adjustable Parameters
- First-Out Shutdowns and/or Alarms
- Shutdown History File
- Service Reminders
- Four Communication Ports
- External PC Card Reader and Modem Ready
- Back Lit Alphanumeric Display



Listings Pending for Cl. I, Div. 2, Grps. C & D areas.



The EMS547 Electronic Monitoring System/Controller is micro-processor based for monitoring and control of equipment functions. It is especially suited to tasks requiring remote modem or SCADA communications. Four built-in communication ports provide a variety of communications capabilities. Basic programs provide selectable auto or manual start/stop and first-out shutdown for engine functions such as pressure, temperature, level and overspeed. Time delays for lockout during start up are included.

The EMS547 can be applied as an RTU to interface between SCADA applications and other control platforms. It can also be used, in conjunction with a Hayes compatible modem (9600 Baud), for remote communications.

An external PC Card reader can be used with the EMS547 to log data from flow meters, pressure transmitters, electric gage senders, and other sensing devices. This is a popular application in the flood control market.

Operating data is displayed on a 32 character back lit alphanumeric liquid crystal display. An onboard real-time clock keeps a log of equipment running hours and alerts you when to change oil, filters and perform other routine service.

The EMS547 operating parameters are configured through a simple three-button interface. Access to the system memory is controlled by entry codes. A password-protected program uses built-in memory to display the alarm/shutdown history, including a

display of the last ten shutdowns, when and why

they occurred, and displays all of the engine operating conditions at time of last shutdown.

Because of the flexibility of this product, please call one of our application specialists to see how best to apply the EMS547. We have a growing library of standard programs or we can write a program to your specific needs.

Applications

- Industrial Engines
- Electric Motors
- Generators
- Construction Equipment
- Compressors
- Trucks
- Pumps
- SCADA
- Remote Cellular Sites

Specifications

Input Voltage: 10 to 28 VDC.

Operating Temperature: -4 to 149°F (-20 to 65°C). Storage Temperature: -4 to 149°F (-20 to 65°C). Relative Humidity: 95%RH @ 60°C (140°F). Communications: 2–RS485, 2–RS232 ports.

Digital: 4 optically-isolated inputs, (positive voltage or ground) such as from Murphy SWICHGAGE® instruments.

Analog: Up to 8 inputs-will accept a variety of resistive sending units, such as from Murphy electric gage senders. (When resistive sending units are used, one input will be designated for battery voltage sensing.)

Optional: Special order analog inputs available, including end of line 4-20 mA and 0-5 VDC. Frequency: 1 optically-isolated input for speed reference, such as MP3298 magnetic sensor.

Outputs:

Transistor: 7 digital; 200 mA sinking. S449-1 Relay Board (Optional):

6 Dry Relay: 4 SPST, 5A @ 30 VDC, 250 VAC, 1/10 hp @ 120 VAC; 2 DPDT, 2A @ 220 VDC, 250 VAC††.

S449-3 Relay Board (Optional):

2 Transistor digital: 200 mA sinking. 4 Relay: 2 SPST, 5A @ 30 VDC, 250 VAC, 1/10 hp @ 120 VAC; 2 DPDT, 2A @ 220 VDC,250 VAC ††.

Display: alphanumeric 2-line, 32 character, back lit.

Shipping Weight: 2-1/4 lb. (1 kg.).

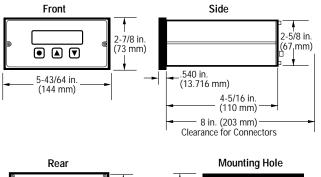
Shipping Dimensions: 9-1/4 x 8-1/4 x 5-1/4 in. (235 x 210 x 133 mm).

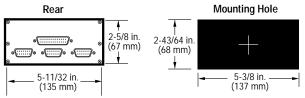
Warranty

A two year limited warranty on materials and workmanship is given with this Murphy product. Details are available on request and are packed with each unit.

- †† One DPDT pole has common connected to battery+. N.O. available fused and unfused.
- **Products covered by this bulletin comply with EMC Council directive 89/336/EEC regarding electromagnetic compatibility

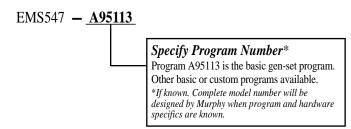
Dimensions





How to Order

Specify the model number using the following example:



Optional Accessories Required to Complete the Installation

Order accessories separately. Specify model number. Example: EMS25RM.

EMS25RM: Rail Mount DIN type Terminal Block.

†EMS25CAR2: Ribbon Cable with 2 Male D-subminiature Connectors.

†EMS25TBCAR2: Ribbon Cable with 1 Male and 1 female D-sub. Connectors.

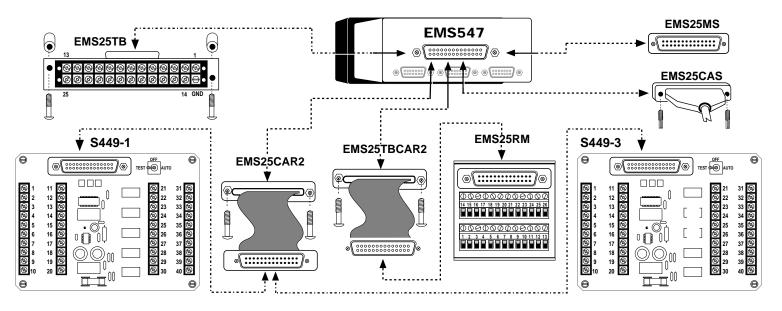
EMS25CAS: Male Connector with 9 ft. (2.74 m) long Color Coded Cable.

EMS25MS: Solder Type Male D-subminiature Connector.

S449-1: Relay Board. S449-3: Relay Board.

†Standard length ribbon cable is 2 ft. (610 mm). Specify in feet for other lengths. Example: EMS25CAR4 (for 4 feet long).

EMS547 and Optional Accessories



In order to consistently bring you the highest quality, full featured products, we reserve the right to change our specifications and designs at any time.

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