



MURPHY
by **ENOVATION CONTROLS**

EMS GC10

GEN SET CONTROLLER

VERSATILE & INTELLIGENT GEN SET CONTROLLER FOR INDUSTRIAL APPLICATIONS



Controls and Monitors Both
Engines and Generators
Simultaneously

Compatible with Mechanical
and Electronic J1939 Engines

Supports Automatic Mains
Failure (AMF) and Generator
Breaker Control

Rugged Design

Easy-to-use PC Configuration Tool

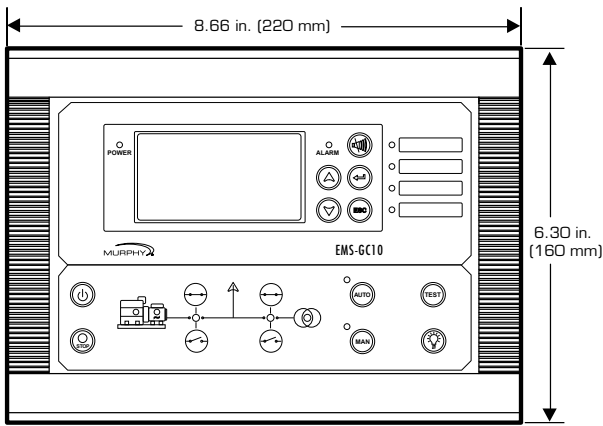


The EMS-GC10 gen set controller provides flexible control and monitoring for industrial gen set applications. Typical applications include backup power, power supply for remote locations without power grid and mobile power for remote locations. The controller supports programmable logic, up to 40 expressions and can be configured for specific functions unique to your application.

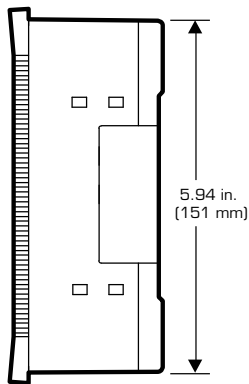
The controller supports Automatic Main Failure (AMF) and generator breaker control and is available as a single controller or in an integrated gen set panel solution.

The EMS-GC10 offers field-adjustable operating parameters that can be changed through the controller or an easy to use PC configuration tool. It is also ideal for use with a remote modem or in a SCADA system offering Modbus RTU protocol on RS485 ports.

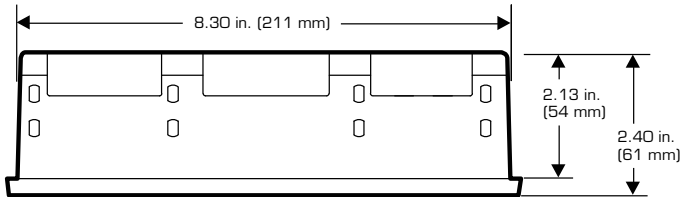
STANDARD DIMENSIONS



Front



Side



Top

TECHNICAL SPECS:

- Accuracy: Class 2.0 to EN 60688
- AC Frequency: 30 to 70Hz
- Pickup Input Voltage: 2 to 70V peak, 10 to 10,000Hz
- CAN Bus: SAE J1939 Compliant
- Analog Inputs: From active transducer: 0(4) to 20 mA
- Impedance: 50 Ω
- Measuring Input Current: 1A or 5A AC from current transformer
- Active Digital Input Voltage: Dry Contact inputs (3 VDC Supply with cable supervision)
- Resistive Input: Resistor inputs internal 3V supply
- Relays: 240 Ω ~ 16mA Impedance:
 - (3) Relay: 30V AC/DC 2A (UL/cUL listed: 30VDC 1A Resistive)
 - (2) Relay: 250VAC/30VDC 2A (UL/cUL listed 30VDC 2A Resistive)
 - (2) Relay: 30V AC/DC 8A (UL-cUL listed: 30VDC 6A Resistive), Status relay/config: 24VDC 1A resistive
- Display Interface: 128 x 64 pixel backlight:STN, 3 line

CONNECTORS

- AC voltage/current inputs: 3.5 mm² (13 AWG) multi-stranded
- Other: 1.5 mm² (16 AWG) multi-stranded
- Shipping Weight: 0.9 kg (1.9 lbs)
- Shipping Dimensions: 160 x 220 mm (6.30" x 8.66")

ENVIRONMENTAL SPECS:

- Operating Voltage: 50 to 480V AC (+20%) phase-phase
- Operating Temperature: -20°C to 70°C (-4°F to 158°F)
- Storage Temperature: -40°C to 70°C (-40°F to 158°F)
- Environmental Sealing:
 - Front: IP65/NEMA type 1
 - Terminals: IP20/NEMA type 1
 - To IEC/EN 60529
- Relative Humidity:
 - 97% RH to IEC 60068-2-30, test Db
 - 40°C to IEC 60068-2-1
 - +70°C to IEC 60068-2-2

APPROVALS:

- UL/cUL Listed to UL508
- UL/cUL Recognized to UL2200
- EMC/CE: To EN 61000-6-1/2/3/4 IEC 60255-22-1/ EN 61000-4-18 (PL3), IEC 60255-26



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