

# EMS-GC10 Genset Controller Unit



## Features

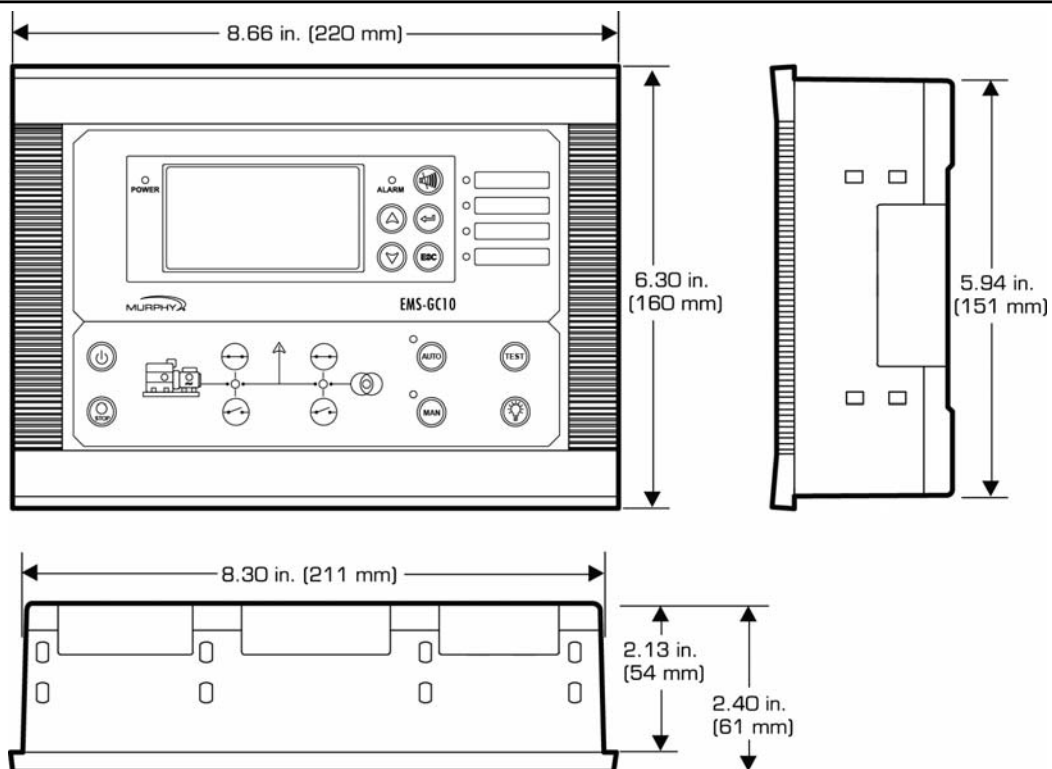
- Controls, Protects, and Monitors Both Engine and Generator
- Compatible with Mechanical and Electronic J1939 Engines
- Supports Automatic Main Failure (AMF) and Generator Breaker Control
- Easy-to-use PC Configuration Tool
- Rugged Design
- Tier 4/ Euro Stage IIIB Ready

The EMS-GC10 Genset Controller provides flexible control and monitoring for industrial genset applications. Typical applications include backup power, power supply for remote locations without a connection to 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. This is accomplished through the M-Logic portion of the Utility Software.

The EMS-GC10 supports Automatic Main Failure (AMF) and generator breaker control.

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

## Product Dimensions



## Specifications

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**Accuracy:** Class 2.0 to EN 60688  
**Input DC Voltage:** 8VDC to 35 VDC  
**AC Frequency:** 30 to 70Hz  
**Magnetic Pickup Input voltage:** 2 to 70V peak, 10 to 10,000Hz  
**CAN Bus:** SAE J1939 Compliant  
**Analog Inputs:** (3) From active transducer: 0(4) to 20 mA, with Resistive-Multi-Inputs (RMI)  
**Impedance:** 50  $\Omega$   
**Measuring Input Current:** 1A or 5A AC from current transformer  
**Active Digital Input Voltage:** (6) Dry Contact inputs (3 VDC Supply with cable supervision)  
**Resistive Input:** Resistor inputs internal 3V supply  
**Relays:** 240  $\Omega$  ~ 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, 5 line

**Shipping Weight:** 0.9 kg (1.9 lbs) Maximum  
**Shipping Dimensions:** 160 x 220 mm (6.30" x 8.66")

### CONNECTORS

**AC voltage/current inputs:** 3.5 mm<sup>2</sup> (4 AWG) multi-stranded  
**Other:** 1.5 mm<sup>2</sup> (16 AWG) multi-stranded

### ENVIRONMENTAL SPECS:

**Generator Operating Voltage:** 50 to 480V AC (+20%) phase-phase (UL/C-UL 300VAC maximum)  
**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 (with gasket)  
**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

## How To Order

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Part Number	Description
75700622	EMS-GC10 Controller
75333620	EMS-GC10 PC Configuration Tool
75000277	EMS-GC10 USB-TTL Cable

To order from website go to: <http://www.fwmurphy.com/emsgc10>



北京

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