

EMS-GC10 Genset Controller Unit

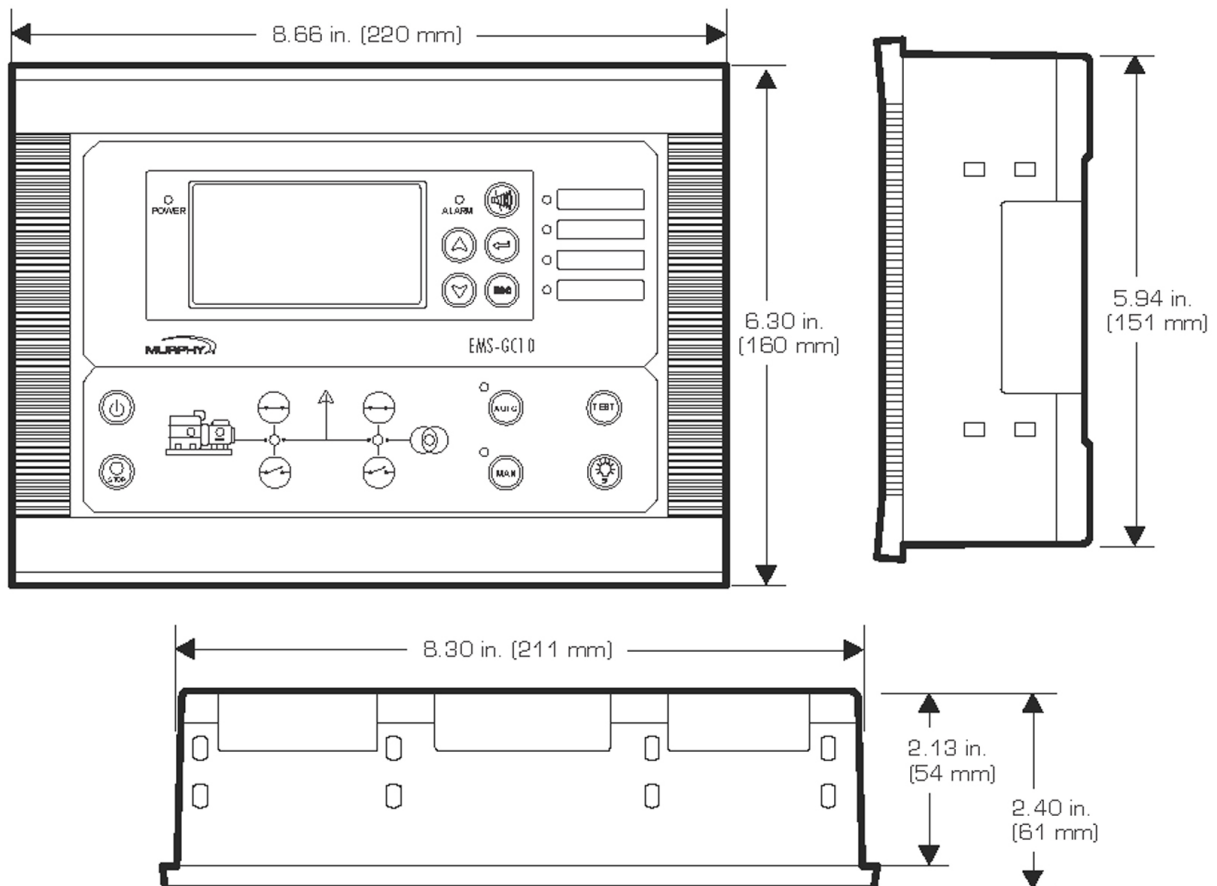
The EMS-GC10 Genset Controller provides flexible control and monitoring for industrial genset applications. Typical generator sets applications include backup power, power supply for remote locations without a connection to the power grid and mobile power for remote locations. The controller supports programmable logic up to 40 expressions, and can be configured for specific functions unique to your applications. 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.



Dimensions



Specifications

Accuracy: Class 2.0 to EN 60688

Input DC Voltage: 6 VDC to 36 VDC

AC Frequency: 30 to 70Hz

Magnetic Pickup Input Voltage: 2 to 70V peak, 0 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 Ω

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 Ω - 16mA Impedance:

(3) Relay: 30V AC/DC 2A (UL/cUL listed: 30VDC 1A Resistive)

(2) Relay: 250 VAC/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: 1.9 lb (0.9 kg) Maximum

Shipping Dimensions: 6.30 x 8.66 inch (160 x 220 mm)

Connectors

AC voltage/current inputs: 3.5 mm² (4 AWG) multi-stranded

Other: 1.5 mm² (16 AWG) multi-stranded

Environmental Specs

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

Operating Temperature: -4°F to 158°F (-20°C to 70°C)

Storage Temperature: -40°F to 158°F (-40°C to 70°C)

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

-20°C (-4°F) to IEC 60068-2-1

70°C (158°F) to IEC 60068-2-2

How to Order

Part Number	Model and Description	Notes
75700622	EMS-GC10 Controller	
75333620	EMS-GC10 PC Configuration Tool (free download from Murphy website)	
75000277	EMS-GC10 PC Cable Interface USB-TTL	