



MURPHY[®]
by **ENOVATION** CONTROLS

MGC 400

COST-EFFECTIVE, INTELLIGENT AND VERSATILE GEN SET CONTROL PANEL



Rugged and Reliable Panel for
Prime Mover, Backup and
Standby Power Applications

Supports Gen Sets Ranging from
50 kw up to MW sized

Works with Mechanical and
Electronic J1939 Engines

Controls, Monitors and Protects
Both the Engine and Generator

Easy-to-use PC Configuration Tool



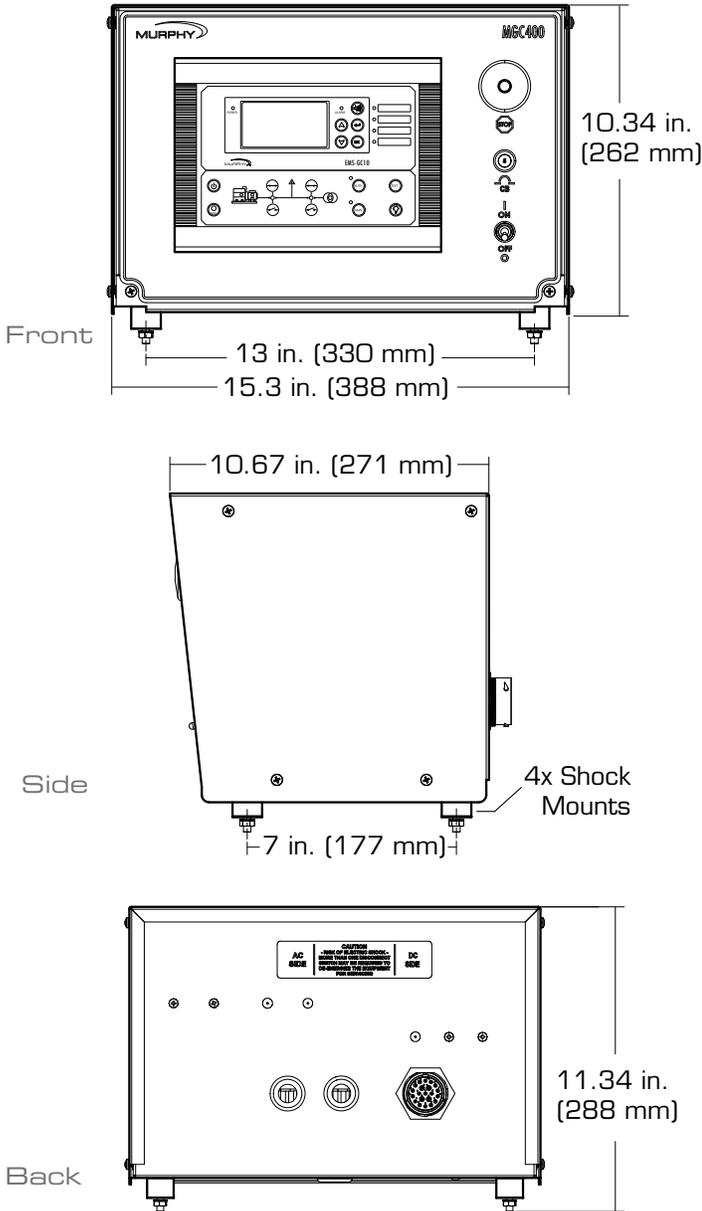
The MGC400 is a flexible gen set control panel that provides powerful control and monitoring for industrial gen set applications. The panel integrates Murphy's robust EMS-GC10 gen set controller with a NEMA 1 type 2 enclosure with rubber shock mounts, an ON/OFF switch, circuit breaker, emergency stop and engine harness connector. The engine harness connector is compatible with Murphy's broad line of MIH harnesses covering a wide range of electronic and mechanical engines.

Current transformers are also available for the MGC400 through our Industrial Panel Division.

The integrated controller delivers field-adjustable operating parameters and can be further configured through the unit's PC configuration tool. The panel is also ideal for use with a remote modem or a SCADA system via Modbus RTU protocol over RS485. Advanced local logic capabilities are provided by a programmable logic tool (M-logic) built into the PC configuration tool, which allows for custom use of the digital I/O and predefining conditions for new functions.

MGC400

STANDARD DIMENSIONS



TECHNICAL SPECS:

- 3 Phase Generator Monitoring for: Voltage, Current, Frequency, Power, Reactive Power
- Generator Protection: Over/Under Voltage (ANSI 59/27), Over/Under Frequency (ANSI 81), Overcurrent (ANSI 51), Reverse/Overload Power (ANSI 32), Voltage Unbalanced (ANSI 60)
- AC Voltage: 50 VAC up to 480 VAC (+20%) phase-to-phase (UL/cUL listed to 300 VAC maximum)
- Measuring Operating Current: 1A or 5A AC (through a current transformer)
- Display: 128 x 64 pixel backlit STN monochrome LCD, 5 lines; capable for graphics, symbols and text
- Real-Time Clock: For date and time
- Powder-Coated Cold Rolled Steel Enclosure
- 4 Rubber Isolation Shock Mounts
- Engine Harness Connector: 21 pin, Deutsch HDP24-24-21PE

ENVIRONMENTAL SPECS:

- Operating DC Voltage: 6 to 36V continuous
- Operating Temperature: -20° to 70°C (-4° to 158°F)
- Storage Temperature: -40° to 85°C (-20° to 185°F)
- Relative Humidity: 97% RH in accordance with IEC 60068-2-30, test Db
- Enclosure Sealing: NEMA 1 Type 2

PHYSICAL SPECS:

- Dimensions (w,h,d): 15.30 in. x 11.34 in. x 10.67 in. (388.5 mm x 288 mm x 271.1 mm)
- Weight: 18 lb. (8.16 kg)

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