

MGC400 Murphy Generator Control Panel

The MGC400 is a flexible genset control panel that provides powerful control and monitoring for industrial genset applications. The panel integrates Murphy's robust EMS-GC10 genset controller in a NEMA1 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 through our Industrial Panel Division.

The EMS-GC10 Genset Controller unit delivers fieldadjustable operating parameters but may require further configuration using the utility software. The MGC400 panel is a complete generator monitoring, controlling and protection solution with Murphy standard configuration. Custom software configurations for variable engines types and models are also available. 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 of the controller unit. This allows for custom use of the digital I/O and predefining conditions for new functions.

Features

- Rugged and Reliable Panel for Prime Mover, Backup and Standby Power Applications
- Supports Gensets Ranging from 50 kw up to MW sized
- Works with Mechanical and Electronic J1939
 Engines
- Controls, Monitors and Protects both the Engine and Generator
- Tier 4/Euro Stage IIIB Ready
- Easy-to-use PC Configuration Tool



Dimensions



Specifications

Technical Specifications	Environmental Specifications	
3 Phase Generator Monitoring for: Voltage, Current,	Operating DC Voltage: 6 to 36V continuous	
Frequency, Power, Reactive Power	Operating Temperature: -4° to 158°F (-20° to 70°C)	
Generator Protection:	Storage Temperature: -40° to 185°F (-40° to 85°C)	
Over/Under Voltage (ANSI Code No. 59/27)	Relative Humidity:	
Over/Under Frequency (ANSI Code No. 81)	97% RH in accordance with IEC 60068-2-30, test Db	
Overcurrent (ANSI Code No. 51)	Enclosure Sealing: NEMA1 Type 2	
Reverse/Overload Power (ANSI Code No. 32)	NOTE: The EMS-GC10 has IP65 protection when it is mounted	
Voltage Unbalanced (ANSI Code No. 60)	or sealed to the panel using a gasket around the back side of the unit.	
EMS-GC10 AC Input Voltage: 50 VAC up to 480 VAC (+20%)	Physical Specifications	
phase-to-phase (UL/cUL listed to 300 VAC maximum)	Dimensions: 15.30 in x 11.34 in x 10.67 in	
Measuring Operating Current:	(388.5 mm x 288 mm x 271.1 mm)	
1A or 5A AC (from a current transformer)	Weight: 18 lb. (8.16 kg)	
Display: 128 x 64 pixel backlit STN monochrome LCD, five lines;		
capable for graphics, symbols and text		
Real Time Clock: For date and time		
Enclosure: Powder-coated Cold Rolled Steel		
Mounts: Four rubber isolation shock mounts		
Engine Harness Connector: 21 pin, Deutsch HDP24-24-21PE		

How to Order

Part Number	Model and Description	Notes
75700621	MGC400: Generator control panel unit	Murphy standard configuration

Custom software configurations for variable engines types and models are also available.

To order from the website go to: www.fwmurphy.com

Details about Murphy Industrial Harnesses (MIH) solutions can be viewed at: www.fwmurphy.com/products/panels/mih

Please contact our Industrial Panels Division for more information about supplying current transformers.