DIGITAL GENERATOR SET CONTROLLER



iGUARD[™] Gen-Set Controller

- **SAE J1939 Compatible.** *Reads this* common SAE protocol used on newer electronic engines.
- **Universal.** *This controller fits any* standard gen-set application. Simplify your life with only one controller to learn and stock.
- Designed to meet NFPA110/NFPA 99
- Unmatched Price. No other controller has these features at a comparable price.

Description

The iGUARD[™] is one controller for all your engine-driven generator set applications. It is designed from the ground up to work with today's electronic engines, accepting the J1939 protocol. The iGUARD[™] also works with nonelectronic engines.

Designed to meet NFPA-110 and NFPA-99 requirements the iGUARD[™] has ample inputs and outputs.

The new iGUARDTM controller can be used for all gen-set applications: single-phase or threephase, and 12 or 24 V.

Engine speed can be read from a magnetic pickup, AC generator frequency, or J-1939 CANbus.

Programming Updates in the Field

Because the microprocessor is flash-based, the controller can be easily re-programmed or updated using a PC in the field.

Applications

- · Packagers and OEM
- Rental Companies
- Prime Power
- Hospitals
- · Ground Support Equipment
- Agriculture
- Marine



iGUARD Standard Components

- 24 Digital inputs
- 8 Analog inputs (one dedicated for battery)
- Inputs for up to three phases and neutral of AC voltage
- Inputs for 3 CT's for current monitoring
- _ 1 - Magnetic pickup input
- 8 20A Form "C" relays
- 1 RS232 port
- 1 RS485 port
- 1 RS232/RS485 port -
- 1 J1939 port
- 1 64 x 128 pixel full graphic LCD with backlight
- 1 12 position keypad

Mounts in Several Ways

- Standard set-top
- Alternator mounting
- · In existing enclosures

Specifications

Mounting (Cut-out) Dimensions: 7.05 x 5.25 x 2.76 in. (179 x 133 x 70 mm)

Mounting Screws:

4, #6-32 screws and nitrile rubber o-ring are supplied to meet NEMA4 specs.

Case Material:

Black Polycarbonate, textured finish, UV stabilized.

Connection:

600V rated multi-wire quick connect for DC and AC connections, suitable for wire harnessing.

Power supply:

Operates from any DC supply for 8-35VDC continuous. Brownout (5V) ridethrough is 5 seconds and a total blackout (0V) ridethrough of 100 milliseconds.

Vibration/Survivability:

3g, 3 axis, frequency swept 10-1000 Hz.

Operating and Storage Temperature Range: -40/+185°F (-40/+85°C).

LCD Operating Range: -4/+176°F (-20/+70°C).

I/O's: Expansion relay board available for additional I/O.

Shipping Dimensions: 10 x 9 x 6 in. (254 x 229 x 152 mm)

Shipping Weights: 2 lb. (910 g.).

Performance Specs

NFPA-110, NFPA-99 SAE Load Dump Test

Approvals

F

UL/CUL Recognized component as stand alone controller.

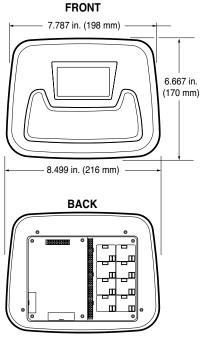


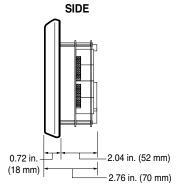
UL/CUL Listed when sold in conjunction with Murphy supplied harness.



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Typical Dimensions





How to Order: Specify: iGUARD™

Digital Generator Set Controller.

Warranty

A limited warranty on materials and workmanship is given with this FW Murphy product. A copy of the warranty may be viewed or printed by going to www.fwmurphy.com/support/warranty.htm

iGuard[™] Accessories

Wire Harnessing

Part Number	Description
75-00-0074	4-position power connector; 12 ft (3.65 m) wire leads.
75-00-0075	10-position comm. connector—J1939, RS232, RS485; 12 ft. (3.65 m) wire lead
75-00-0076	10-position communications connector - RS232, RS485
75-00-0077	Digital Inputs 1-8; 12 ft. (3.65 m) wire leads 12 ft. (3.65 m) wire leads
75-00-0078	Digital Inputs 9-24; 12 ft. (3.65 m) wire leads
75-00-0079	Analog Inputs, Magnetic Pickup; 12 ft. (3.65 m) wire leads
75-00-0080	ESD Jumper; 0.2 feet (61 mm) wire leads
75-00-0081	AC Voltage connector; 12 ft. (3.65 m) wire leads
75-00-0082	AC Current connector; 12 ft. (3.65 m) wire leads

Senders and End Devices

Part Number	Description
05-70-1858	0-100 psi Oil pressure sender
10-70-2013	300 °F (150°C) Coolant temperature sender
15-70-0116	EL150K1 Coolant level indicator and low Coolant level shutdown
15-70-0104	L129 high/low Oil level indicator and shutdown
15-70-0660	LM2000 Engine oil replenisher and low oil level shutdown
05-70-6345	PXMS-100 4-20mA Pressure sender 100 psi

Current Transformer

Part Number	Description
00-00-2592	50:5A Current transformer, 12 inch (305 mm) leads
00-00-2707	60:5A Current transformer, 12 inch (305 mm) leads
00-00-4893	75:5A Current transformer, 12 inch (305 mm) leads
00-00-2372	100:5A Current transformer, 12 inch (305 mm) leads
00-00-2484	150:5A Current transformer, 12 inch (305 mm) leads
00-00-2485	200:5A Current transformer, 12 inch (305 mm) leads
00-00-2486	300:5A Current transformer, 12 inch (305 mm) leads
00-00-2487	400:5A Current transformer, 12 inch (305 mm) leads
00-00-2488	500:5A Current transformer, 12 inch (305 mm) leads
00-00-2489	600:5A Current transformer, 12 inch (305 mm) leads
00-00-2490	800:5A Current transformer, 12 inch (305 mm) leads
00-00-2441	1000:5A Current transformer, 12 inch (305 mm) leads
00-00-2441	1000:5A Current transformer, 12 inch (305 mm) leads
00-00-2516	1200:5A Current transformer, 12 inch (305 mm) leads
00-00-2517	1500:5A Current transformer, 12 inch (305 mm) leads
00-00-2504	1600:5A Current transformer, 12 inch (305 mm) leads
00-00-2518	2000:5A Current transformer, 12 inch (305 mm) leads
00-00-2519	3000:5A Current transformer, 12 inch (305 mm) leads



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