

# EMERSON & MATKIN

## 2-71 GENERATORS "THE DEUCE"

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### **AUTO-START GENERATOR CONTROL PANEL**

Part # 2-71ASDDG



- J1939 Communications
- NFPA Level 1 Compliant
- 3 On-Board 40A Relays
- Real-Time Clock
- 100 Event Failure Log
- Conformally Coated PCB
- 3 Phase AC Current Sensing
- AC Voltage Sensing to 600v
- 8 Programmable Digital Inputs
- Automatic Battery Recharge
- Generator Exerciser
- RS232 Interface
- PC Programming Interface
- Connection for 6 Industry Standard Analog Senders
- 5.5" x 4.5" x 1.6" Footprint
- Front or rear mountable
- Five year warranty

Control Panel Kit \$995.00

Labor to Install \$350.00

### **Great Things Come in Small Packages**

Engineers designed the new 2-71ASDDG for perfect form, fit, and function. Every feature you need in a state-of-the-art generator controller has been integrated into the 2-71ASDDG's compact footprint. Smaller has never been more powerful or more elegant.

### **Unbelievably Sharp Graphic LCD Screen**

See for yourself - the picture above is an actual unretouched photo of the brilliant 128 x 64 white-on-blue graphic LCD screen. The 2-71ASDDG display has the highest contrast ratio and is the most luminous of any generator control panel in sight. Both viewing angle and readability from a distance are unsurpassed.

Rev 2-09

### **Computer or manually programmable**

The 2-71 ASDDG can be programmed manually via front panel buttons OR with our easy-to-use PC software interface that provides customization of screen messages, languages, sender selections, control settings, and much more. Or, you can simply have the 2-71ASDDG configured to your settings at our factory prior to shipping.

### **One-Stop Toll-Free Technical Support**

Buying all your power control products from Emerson & Matkin has one very big advantage: one toll-free number for all your technical support questions. Transfer Switches - Panels - Controllers - we provide them all.

### Operating Voltage

- 7 to 32VDC with operation to 0VDC for 50mS
- Standby Current Draw 50mA

### Operating Temperature

- Controller: -40 to +85°C
- LCD Temperature Range -20 to +70°C

### Physical

High Impact ABS UV Resistant Enclosure

### Speed Sensing

Via J1939 bus, Magnetic pick-up, or Generator AC

### Front Panel Indications

High intensity LED's with regulated brightness indicating:

- EPS Supplying Load (Green)
- Preheat (Green)
- Low Coolant (Amber / Red)
- Not in Auto (Red)
- Battery Status (Green / Amber)
- Low Fuel (Red / Amber)
- Overspeed (Red / Amber)
- Low Oil (Red / Amber)
- High Temp (Red / Amber)
- Overcrank (Red / Amber)
- Failure (Red)

### 8 Programmable Digital Inputs

(4 switch to +battery and 4 switch to ground)

- Low Air Pressure
- Low Air Pressure
- Low Hydraulic Pressure
- EPS Supplying Load
- Alarm Silence
- Low Coolant
- AC group Select 1 & 2
- Idle Mode
- Start/Stop #2
- Auxiliary Warning / Failure

### Programmable Digital Outputs

- WarmUp
- Engine Cranking / Running
- Energize to Stop
- Preheat
- Not in AUTO
- General Failure
- Cooldown
- OverCrank
- Crank Rest
- Exerciser Alarm
- High Engine Temp Warning & Failure
- Low Oil Pressure Temp Warning & Failure
- Underspeed Warning & Failure
- Overspeed Warning & Failure
- Low Fuel Warning & Failure
- Battery Warning & Failure
- Battery Recharge Alarm
- Low Coolant Warning & Failure
- Under/Over Voltage Warnings
- Over Current Warning
- Fuel in Basin Warning
- Low Temperature Warning
- Voltage Regulator
- Backlight
- Auxiliary Warning

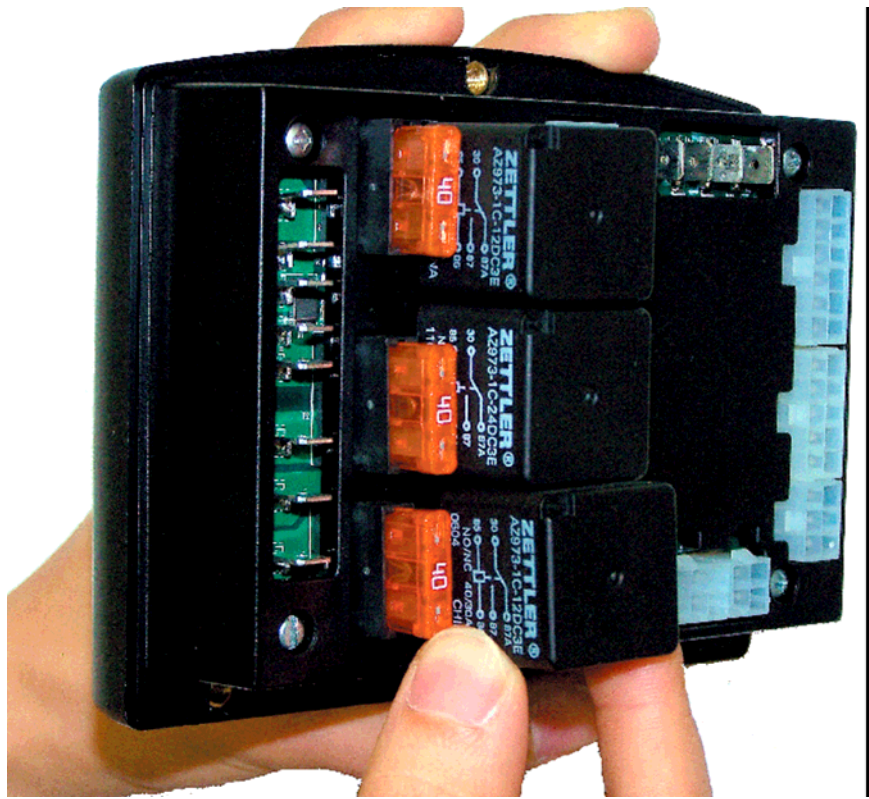
### Analog Inputs (Sender/Switch/J1939)

- High Engine Temp
- Low Oil Pressure
- Fuel Level
- Fuel in Basin
- Low Engine Temp

### Adjustable Settings & Parameters

#### Battery

- Low/High Battery Warning/Failure (7-32VDC)



- Low Battery Recharge Level (7-24VDC)
- Battery Recharge Run Time (10-240min)
- Battery Recharge Prealarm Time (1-60min)

### Speed Sensing

- Overspeed/Underspeed Warning/Failure (100-5000rpm)
  - Crank Disconnect
- AC Parameters
- Over/Under Frequency Warning/Failure (1-100Hz)
  - Over/Under Voltage Warning/Failure (0-700VAC)
  - Over Current Warning/Failure (0-6500Amps)
  - AC Secondary Disconnect (1-100Hz)

### Engine Logic

- Delay to Start Timer (0-60sec)
- Crank Time (3-60sec)
- Cooldown Time (0-600sec)
- Preheat Time (0-60sec)
- Postheat Time (0-60sec)
- WarmUp Time (0-600sec)
- Midheat Time (0-60sec)
- Crank Attempts (1-60 attempts)
- Crankrest Time (1-60sec)
- Crank Disconnect (100-2000rpm)
- Energize-to-Stop Time (0-30sec)
- Fuel On during Crank Rest (Enable/Disable)
- Restart on False Attempt (Enable/Disable)

### Fully Programmable Engine Exerciser

- Enable/Disable
- Start date and time
- Prealarm delay (1-20 minutes)
- Exerciser run time (10-240 minutes)
- Repeat Interval (1-672 hours)

### AC systems generator parameter display

- Line-Line and Line-Neutral
- Display of phase being viewed

### Additional Features

- Conformally Coated for Moisture Protection
- Password Protection
- Sleep mode ensures low battery consumption in both AUTO and OFF modes
- Front and Rear Mountable