VERSATILE & INTELLIGENT GENSET CONTROLLER FOR INDUSTRIAL APPLICATIONS

Controls and Monitors both Engines and Generators Simultaneously
Compatible with Mechanical and Electronic J1939 Engines
Supports Automatic Mains Failure (AMF) and Generator Breaker Control
Rugged Design
Tier 4/Euro Stage IIIIB Ready
Easy-to-use PC Configuration Tool

The EMS-GC10 genset controller provides flexible control and monitoring for industrial genset applications. Typical applications include backup power, power supply for remote locations without 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 application.

The controller supports Automatic Main Failure (AMF) and generator breaker control, and is available as a single controller or in an integrated genset panel solution.

The EMS-GC10 offers field-adjustable operating parameters that can be changed through the controller or an easy to use PC configuration tool. It is also ideal for use with a remote modem or in a SCADA system offering Modbus RTU protocol on RS485 ports.
TECHNICAL SPECS:

- **Accuracy**: Class 2.0 to EN 60688
- **AC Frequency**: 30 to 70Hz
- **Pickup Input voltage**: 2 to 70V peak, 10 to 10,000Hz
- **CAN Bus**: SAE J1939 Compliant
- **Analog Inputs**: From active transducer: 0(4) to 20 mA
- **Impedance**: 50 Ω
- **Measuring Input Current**: 1A or 5A AC from current transformer
- **Active Digital Input Voltage**: Dry Contact inputs (3 VDC Supply with cable supervision)
- **Resistive Input**: Resistor inputs internal 3V supply
- **Relays**: 24V O ~ 16mA Impedance:
  - (3) Relay: 30V AC/DC 2A [UL/cUL listed: 30VDC 1A Resistive]
  - (2) Relay: 250VAC/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, 3 line
- **AC voltage/current inputs**: 3.5 mm2 (13 AWG) multi-stranded
- **Other**: 1.5 mm2 (16 AWG) multi-stranded
- **Shipping Weight**: 0.9 kg [1.9 lbs]
- **Shipping Dimensions**: 160 x 220 mm (6.30" x 8.66")

ENVIRONMENTAL SPECS:

- **Operating Voltage**: 50 to 480V AC (+20%) phase-phase
- **Operating Temperature**: -20°C to 70°C (-4°F to 158°F)
- **Storage Temperature**: -40°C to 70°C (4°F to 158°F)
- **Environmental Sealing**:
  - Front: IP65/ NEMA type 1
  - Terminals: IP20/ NEMA type 1
  - To IEC/EN 60529
  - Relative Humidity:
    - 97% RH to IEC 60068-2-30, test Db
    - -40°C to IEC 60068-2-1
    - +70°C to IEC 60068-2-2

APPROVALS:

- UL/cUL Listed to UL508
- UL/cUL Recognized to UL2200
- EMC/CE: To EN 61000-6-1/2/3/4 IEC 60255-22-1/ EN 61000-4-18 (PL3), IEC 60255-26

DOMESTIC SALES & SUPPORT

- **ECOCONTROLS PRODUCTS**
  - PHONE: 210.655.9772
  - FAX: 210.465.9791
  - EMAIL: INFO@ECOCONTROLS.COM
  - WWW.ECOCONTROLS.COM

- **MURPHY PRODUCTS**
  - PHONE: 918.317.4100
  - FAX: 918.317.4200
  - EMAIL: SALES@FWMURPHY.COM
  - WWW.FWMURPHY.COM

- **MURPHY CONTROL SYSTEMS & SERVICES**
  - PHONE: 281.633.4500
  - FAX: 281.633.4585
  - EMAIL: CSS-SOLUTIONS@FWMURPHY.COM

- **MURPHY INDUSTRIAL PANEL DIVISION**
  - PHONE: 918.317.4100
  - FAX: 918.317.4124
  - EMAIL: IPD@SALES@FWMURPHY.COM

INTERNATIONAL SALES & SUPPORT

- **UNITED KINGDOM**
  - PHONE: +44 1722 410065
  - FAX: +44 1722 410099
  - EMAIL: SALES@FWMURPHY.CO.UK
  - WWW.FWMURPHY.CO.UK

- **CHINA**
  - PHONE: +86 571 8788 6666
  - FAX: +86 571 8664 9810
  - EMAIL: APSSALES@FWMURPHY.COM

- **LATIN AMERICA & CARIBBEAN**
  - PHONE: 918.317.2500
  - EMAIL: LASALES@FWMURPHY.COM

- **SOUTH KOREA**
  - PHONE: +82 70 7951 4100
  - EMAIL: SKOREASALES@FWMURPHY.COM

- **INDIA**
  - PHONE: 011 95151 37632
  - EMAIL: INDIA@SALES@FWMURPHY.COM