

State of

the Art

Digital

Generator

Controller

BE21



PROGRAMMABLE GENERATOR CONTROLLER

TECHNICAL DATA

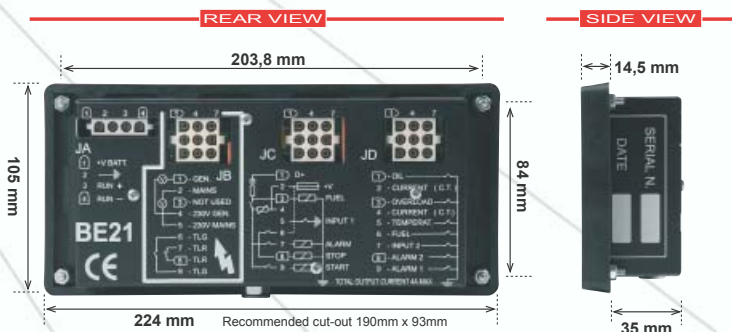
| Display | Parameter |
|---------|---------------------------------|
| Ch.0 | Mains Failure Delay |
| Ch.1 | Mains Restore Delay |
| Ch.2 | Mains Under-voltage(V) |
| Ch.3 | Mains Over-voltage(V) |
| Ch.4 | Warm Up Timing |
| Ch.5 | Cooling Down Timing |
| Ch.6 | Generator Under-Voltage (V) |
| Ch.7 | Generator Over-Voltage (V) |
| Ch.8 | Generator Under-Hz (Hz) |
| Ch.9 | Generator Over-Hz (Hz) |
| Ch.10 | Current Transformer Size (A) |
| Ch.11 | Overload Setting (A) |
| Ch.12 | G Failure Alarm (Code) |
| Ch.13 | Glow/Choke Control (Code) |
| Ch.14 | Engine Crank Timing |
| Ch.15 | Engine Running Trigger (V) |
| Ch.16 | Engine Rest Timing |
| Ch.17 | Number of Starting Attempts |
| Ch.18 | Low Oil Pressure By-Pass Delay |
| Ch.19 | Stop Solenoid Timing |
| Ch.20 | Alarm Output Mode or Timing |
| Ch.21 | JC7 Output Control Mode (Code) |
| Ch.22 | Input 1 Control (Mode) |
| Ch.23 | Belt Break Control (Code) |
| Ch.24 | Temperature Switch (n.c/n.o) |
| Ch.25 | ALARM 2 Switch (n.c/n.o) |
| Ch.26 | Automatic Periodic Test (Days) |
| Ch.27 | Automatic Engine Test (Minutes) |

BE21 provides inexpensive A.M.F and Generating Set control and monitoring with digital accuracy.

This microprocessor-based controller includes 6 push-buttons, 24 LED lamps, 4-digits display, 6 relay outputs, 8 digital inputs, 5 analogue inputs, 28 programmable parameters, Hour-meter, Digital Calibration, 8 display modes, 14 display-messages and 4 operating modes.

TECHNICAL DATA

| Terminal | Description |
|----------|--|
| JA1 | +V Battery (Supply) |
| JA2 | -v Battery (Supply) |
| JA3 | Charge Control Input |
| JA4 | Charge Control Input |
| JB1 | Generator Voltage Input |
| JB2 | Mains Voltage Input |
| JB3 | Not Used |
| JB4 | Generator Voltage Input |
| JB5 | Mains Voltage Input |
| JB6 | KG Relay Output (n.o.) |
| JB7 | KM Relay Output (n.c.) |
| JB8 | KM Relay Output (n.c.) |
| JB9 | KG Relay Output (n.o.) |
| JC1 | Charger Excitement output |
| JC2 | +V Relay Contact Supply |
| JC3 | Fuel Solenoid Output |
| JC4 | Not Used |
| JC5 | Mains Simulation/Test Switch Input |
| JC6 | Stop Solenoid Output/Dry Contact |
| JC7 | Alarm/Preheat/Choke Relay Output |
| JC8 | Stop Solenoid Output/Dry Contact |
| JC9 | Start Relay Output |
| JD1 | Oil Pressure Contact input |
| JD2 | Current Transformer Input |
| JD3 | Overload Relay Input |
| JD4 | Current Transformer Input |
| JD5 | High Temperature Switch Input (note*) |
| JD6 | Low Level Fuel Switch Input |
| JD7 | Remote Lock Switch Input |
| JD8 | Alarm 2 Switch Input (note*) |
| JD9 | Alarm 1 Switch input |
| (note*) | The polarity of the switch is programmable |



Specifications

- ◆ **DC supply:**
Battery plant 12-24Vdc / 250mA MAX
- ◆ **Mains / Generator Input Voltage Range:**
24Vac up to 500Vac
- ◆ **Operating Temperature Range / Humidity:**
-30°C to +70°C / 0-95% non condensing
- ◆ **DIN Size / Cut-out:**
DIN 192x96 (double size 96x96) / 190 mm x 93 mm
- ◆ **DC Relay Outputs:**
4 Amps dc at supply voltage (total current of the Outputs)
- ◆ **AC Relay Outputs:**
8 Amps / 250Vac (external 1A Fuses are required)
- ◆ **Shipping Weight / Box Dimensions:**
850Gr. / 245 mm x 135 mm x 60 mm