Be-One

Engine + Generator Controller

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State-of-the-art generating set controller

Description

The Be-One is a microcontroller based, control and protection module for engines and generators. It features 4-digit display, 6 LEDs indicators and provides Off, By-pass, Manual, Auto, Test, Troubleshooting and Calibration operating modes. The Be-One shuts down the engine in case of Low Oil Pressure, High temperature (Engine, Canopy or Oil), Over-Under Speed and Frequency, Over-Under Voltage, Low Fuel and 5 - input configurable alarms. The user can configure 5 inputs and 4 outputs using several options. The display indicates measurements, hours count and messages for alarms. Windows XP (*) compatible control software provided.

Key Features

- ☑ 160 programmable parameters & settings
- ☑ 72h Burn-in
- ☑ Events History records 100 events
- ☑ Generator True R.M.S Voltage
- ☑ Monitors Oil, Engine & Canopy Temperature
- ☑ RS485 MODBUS protocol
- ☑ Detects speed from Pick-up, Generator or belt-Alternator

- ☑ 5 programmable Analog/Digital inputs with 15 options for each
- ☑ 4 programmable Outputs with 31 options for each

Front Panel features

- 6 LEDs, 7 Pushbuttons, 4-digit Display
- Automatic control of the contactor of the Generator
- 7 Operating modes, Maintenance Timer
- Allows 4-character password protection
- 27 alarm messages and 15 ideograms
- Vac, Hz, Vdc, R.P.M. indications
- BAR, Temperature, % Fuel, and h-meter
- All measurements may be calibrated in the field

Miscellaneous features

- RS485 Port: MODBUS RTU compatible
- Low-power consumption: less than 2W
- Popular Standard size DIN 96
- Dimensions/Weight: 96x96x40 / 350gr.
- 3-Years full warranty, cost effective
- IP protection: IP54 (IP20 at rear)
- Connections: two-part removable Plug & Socket

Specifications

- Vdc Supply: 5.0Vdc up to 36Vdc / 2W max
- Vac (Generator): 60Vac up to 600Vac
- Frequency Range: 15Hz up to 90Hz
- Vac (TRMS) accuracy: +/-1%
- Analogue Resistive Senders: 0 up to 2000 Ohm
- Static Outputs: 300 mA/100Vdc, short circuit protected
- Programmable digital inputs trigger threshold
- Operating Temperature Range: -30°C up to +70°C

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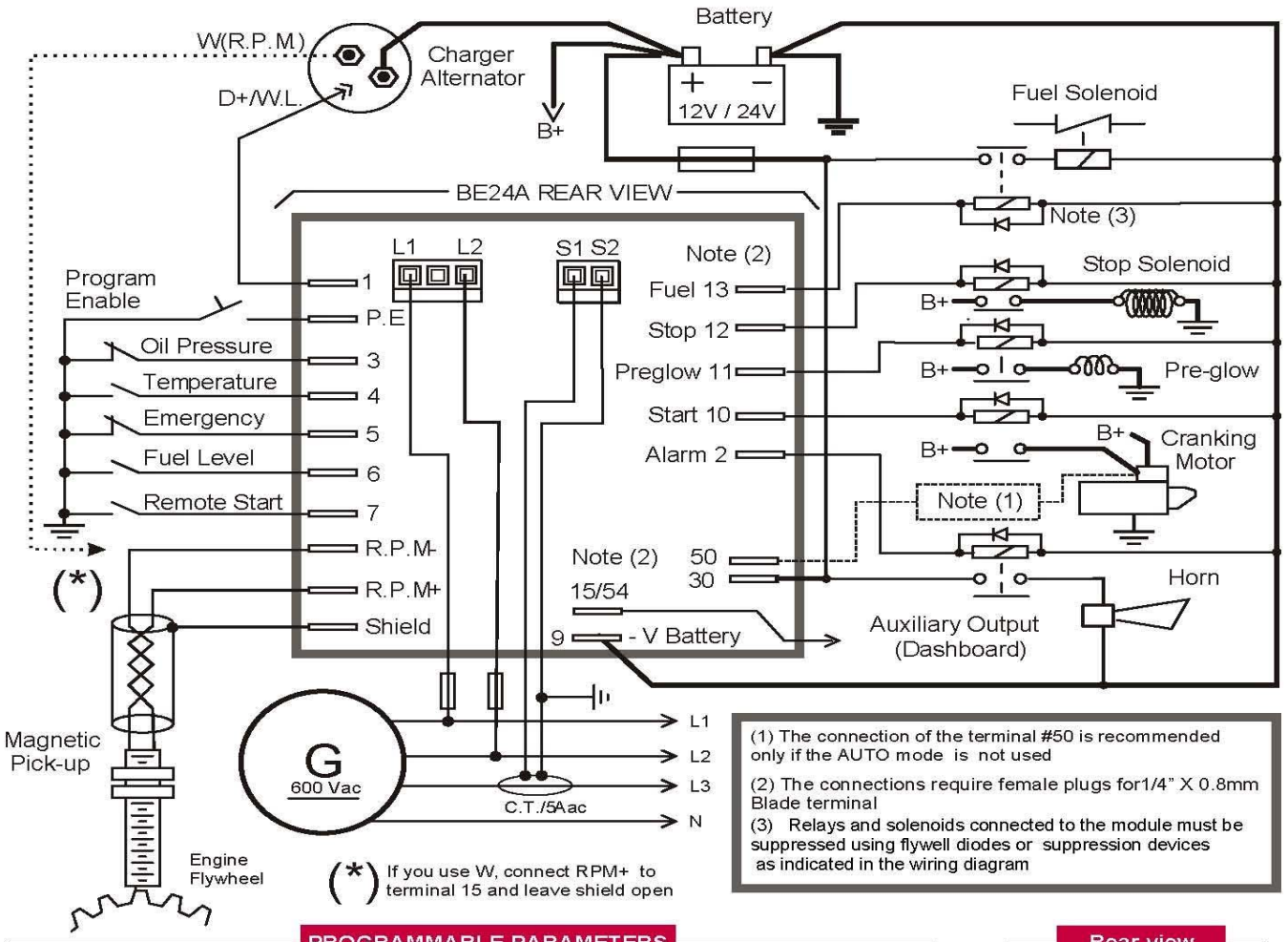
BERNINI design

TYPICAL APPLICATION



(1) The connection of the terminal #50 is recommended only if the AUTO mode is not used

(2) The connections require female plugs for1/4" X 0.8mm Blade terminal

(3) Relays and solenoids connected to the module must be suppressed using flywell diodes or suppression devices as indicated in the wiring diagram

PROGRAMMABLE PARAMETERS

DISPLAY		DESCRIPTION
[P. 0]	[1"]	Remote Start delay
[P. 1]	[1"]	Remote Stop delay
[P. 2]	[5"]	Crank Timing
[P. 3]	[8.0]	Engine Running
[P. 4]	[3"]	Rest Timing
[P. 5]	[3]	Starting Attempts
[P. 6]	[Inh.]	Under-Voltage
[P. 7]	[Inh.]	Over-Voltage
[P. 8]	[Inh.]	Under-Frequency
[P. 9]	[Inh.]	Over-Frequency
[P.10]	[500]	C. T. Size
[P.11]	[Inh.]	Generator Overload
[P.12]	[OFF]	Generator Failure
[P.13]	[10"]	Glow Plugs/Choke
[P.14]	[0]	Output Control
[P.15]	[OFF]	Belt Break Control

DISPLAY		DESCRIPTION
[P.16]	[15"]	Stop Solenoid Timing
[P.17]	[1']	Alarm Output Timing
[P.18]	[n.o.]	Temperature Switch
[P.19]	[n.o.]	ALARM Control
[P.20]	[n.o.]	Remote Start
[P.21]	[Inh.]	Under Speed
[P.22]	[Inh.]	Over Speed
[P.23]	[Inh.]	Teeth of the Flywheel
[P.24]	[Inh.]	Crank OFF speed
[P.25]	[6"]	Engine alarms By-Pass
[P.26]	[Inh.]	Automatic Periodic Test
[P.27]	[5']	Engine Test duration
[P.28]	[5"]	Generator warm-up
[P.29]	[5"]	Generator cooling time
[P.30]	[Inh.]	Poles of the Alternator
[P.31]	[5']	Fuel Level Shut Down

Rear view

Panel Cut-out 91x91mm

Side view