

## GCU 103- Generator Controller Unit

### General Disruption

GCU-103 is a 3-phase Automatic / Manual Generator controller module including protection for (STANDBY) GEN-SETS. It uses an advanced single chip microcomputer for an easy and trouble free GEN-SET control in case of mains power failures. If mains fail ( over / under voltage, loss of mains voltage ), GCU- 103 initiates an automatic GENSET start cycle including load transfer to the generator by switching the generator contactors. After the main is restored the load will be automatically transferred back to mains the GEN- SET will stop after a cool down time. During all cycles, generator is protected against malfunction. All alarms occurring at abnormal GEN-SET conditions are computed and displayed either by LED or by LCD display and if necessary the GEN-SET gets stopped.

Values of over / under voltage, frequency and overload current, cooling down time is programmable. The GCU-103 has 29 powerful programmable parameters to fit the program flow to customer needs.

# GCU 103



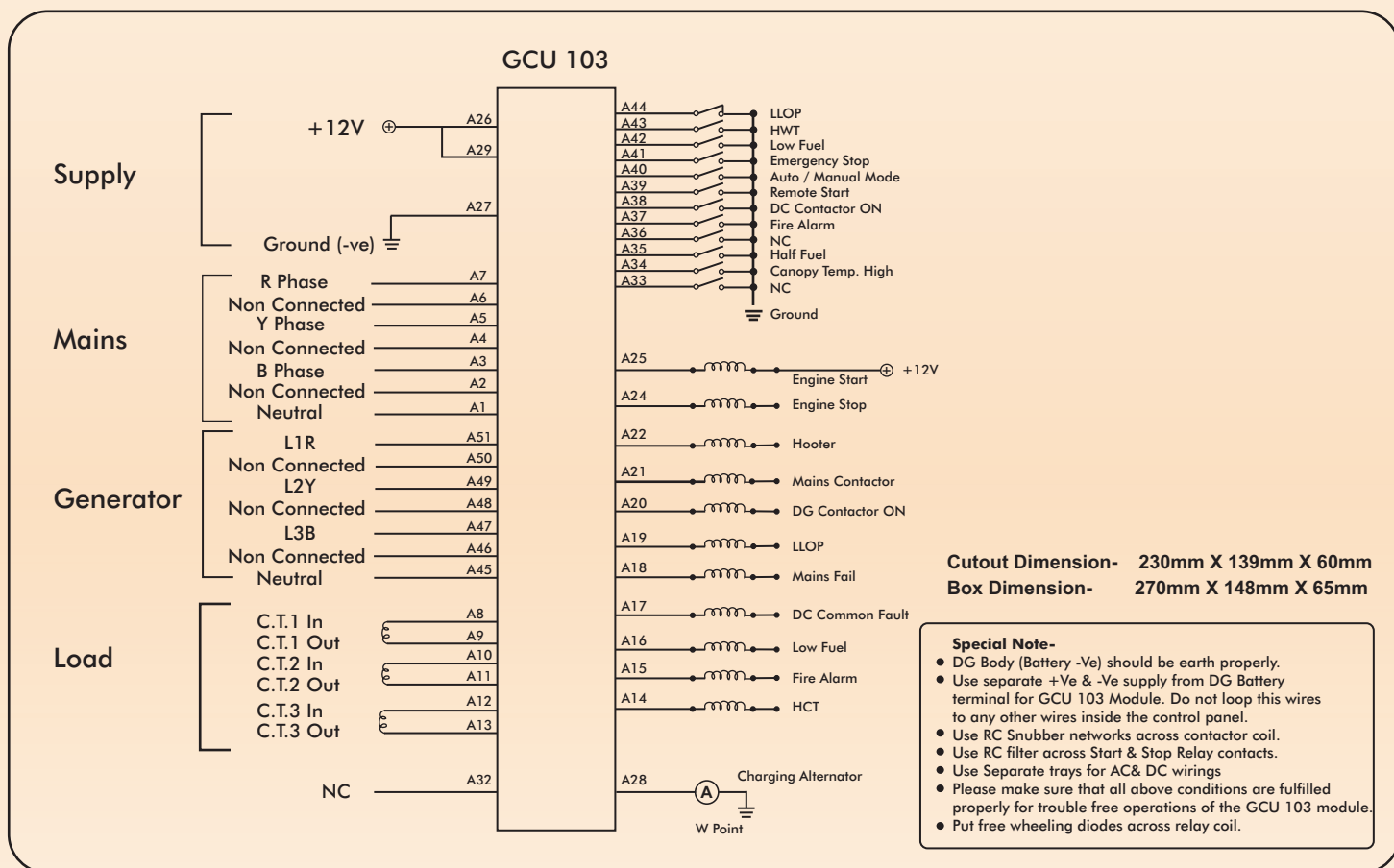
# F E A T U R E S

- Display of Generator Phase 1,2,3 Voltages and Frequency, RPM.
- Display of Mains Phase 1,2,3 Voltages.
- Display Load Current Phase 1,2,3.
- Display of Date & time.
- Display of Mains & DG KWH
- Display of Power Factor of R, Y, B
- Display of Fault Log Data, DG start, stop events.
- Display of the DG Battery Voltage.
- 28 programmable parameters. (Programming Protected with Password)
- Current transformer ratio programmable.
- Site Code is Programmable.
- 12 Digital inputs, 11 relay outputs.
- Relay outputs for mains and generator contactor.
- Display the Log of Mains, DG KWH.
- Fuel Consumption per Liters & Log of Fuel Consumption.
- Remote Monitoring of parameters is available. ( RS 232 )

# General Characteristics-

Supply	5 to 16 Volts.
Current Transformer	5 Amp.
VAC Inputs Rating	90-300V @ 50Hz
VAC Maximum Over Voltage	600 V
Solid State Output	500 mA
Digital Inputs	32 V Dcmax/Engine Ground
Weight	800 gms.
Operating Temperature	0 to 70 degree Cent.
Display Accuracy	+/-2% of F.S.D
Warranty	1 Year
Box Dimension	270mm X 148mm X 65mm
Cutout Dimension	232mm X 139mm

# GCU 103 Connection Details-



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\* Due to continuous product improvements specs. are subject to change without notice.