



Pragati Electrocom Pvt. Ltd.

AMF CONTROL PANEL

POWER AUTOMATION SYSTEM/AMF

INTRODUCTION

Telecommunication equipments need to work continuously without any interruption. So it requires continuous supply for continuous operation. This is provided by Power Plant. Power plant works on AC supply. When ever AC mains supply fails the equipment works on Battery. The battery have often time limit to provide the back up. DG is the other source to provide power back up to power plant and other equipments.

Power Automation System is the automatic solution for this type of situation to monitor and operate the Generator set.

HOW IT WORKS

Power Automation System Monitor all the parameter of Genset as well as mains continuously. It starts / stop the Genset automatically. It stops the Genset if any abnormal condition appears in Genset.

SYSTEM DESCRIPTION

- This system starts the generator on failure of AC mains supply or as battery reaches at low level or room temperature goes high (specified by user).
- Switched off the Generator automatically either presence of Mains AC or lowest fuel level or any abnormality present in /with Genset.
- Transfer the load to Genset automatically on failure of AC Mains supply.
- Transfer the load on Mains automatically on availability of Mains supply.
- Switched off the Generator after running some hour (adjustable) and equipment will transfer on battery, if mains unavailable for long time. So that it save the fuel and power. This facility will provide on requirement of user.
- Switch off Generator automatically & give alarm, if temperature of Genset goes high.

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- The system gives the cyclic and cumulative run time of generator.
- The system has the Auto/ Manual facility to start and stop the generator manually.
- All timers have provision to change time-period.
- The system configured for self start Genset, either 1-phase or 3-phases system.

FEATURES

- Suitable for Single and Three phases generator system.
- Flexibility to do alternation as per the system requirement.
- LED indication for all the normal and abnormal conditions.
- Visual alarm for abnormal condition.
- Rotary switch to select Auto/Manual mode.
- Potential free contacts for alarms.
- Low consumption of internal power.
- Base mountable cabinet.
- Suitable for any type of self start generator.
- Display meter to show the AC and DC Voltage.

INDICATIONS

- Low Battery Exchange (Optional)
- Mains out of Range
- Fuel Level Low
- Generator Fail to Start
- Low Lube Oil Pressure
- Temperature High

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MAINTENANCE

The components and raw materials used in PAS are of quality and reputed make, workmanship is good and testing is thorough. Therefore, normally the unit would give trouble free service for a number of years. However, the following minimum maintenance is recommended.

- Keep the unit clean from dust and moisture.
- Check and tight if loose connections are there in the system.

FAULT FINDING & SERVICING

All unit parts are easily plug in/plug out type.
Any burnt or damaged part can be easily replaced.

Further, if LED indicates the failure condition please check particular section named by LED.

If generator is not getting start, check the LED of ESR & charger section of PAS. Check the relay attached with generator, if Power Automation System is found OK.

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