

Control unit for generating sets RGAM series

Planet-SWITCH

Planet-DIN

Planet-LOGIC

Lovato
electric
100% electricity

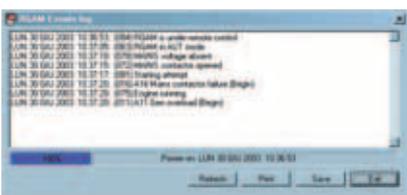
**Control unit for
generating sets
RGAM series**



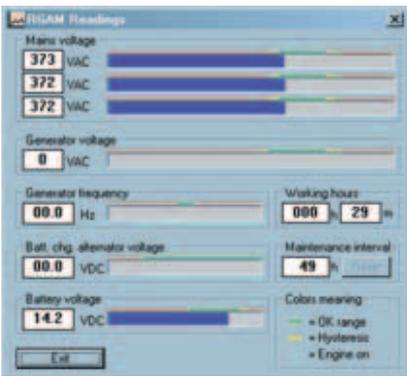
31 RGAM...



31 RGAM...RC



Events log



Remote control software

- Automatic control of stand-by generating sets
- Microprocessor control
- Remote control and supervision via modem
- Network of up to 32 units under one central control
- Mains supply supervision
- Supervision of the generator supply and engine functions
- Alarms indication
- Events log
- Automatic test cycle

RGAM control units are microprocessor controlled and available in two types, used to automatically start stand-by generating sets and mains-generator changeover when mains anomalies occur. Each unit monitors and displays the status of all critical engine and alternator functions and provides three-phase control of the mains, including asymmetry and single phase control of the generator, with RMS readings.

Order code	Aux. supply	Description	Wt
	[V]		[kg]
31 RGAM 12	12VDC	Standard version, parameter programming via keypad on unit front, equipped with serial RS232 port for remote control by personal computer via normal or GSM modem for supervision, troubleshooting and maintenance purposes.	1.014
31 RGAM 24	24VDC		
31 RGAM 12RC	12VDC	Specific version fitted with serial RS485 port for personal computer connection and networking up to 32 units for stand-by generating sets via converter drives.	1.145
31 RGAM 24RC	24VDC		
31 RGAM SW	—	PC-RGAM remote control software complete with connecting cables for communications via RS232/RS485 ports.	—

Remote control and supervision

The remote control software allows to obtain the following information:

- Status supervision of all the variables, both digital and analog
- Access to all front panel functions with graphic display
- Possibility to read, set, modify, save on disk, print and subsequently reload all the set-up parameters
- Access to parameters protected by password
- Viewing of the last 255 events, each with date and time entry
- Remote access management through modem and GSM
- Possibility to configure the program in different languages.

Very interesting communications features are obtained by the Autocall function combined with the GSM modem, such as:

- SMS (Short Message Service): At alarm events, the RGAM can send its ID and alarm code with time and date entry. The advantage is the possibility of reaching service people, without delay, wherever they are located.
- E-mail (via Internet): A message, with the same structure as above, can be transmitted to a specified mailbox. The advantages on this type of message with respect to the SMS are that any communication, received through Internet mail server, is permanent and a vast number of these can be received and reviewed at any time.

General characteristics

- Microprocessor unit
- Supervising software for remote control (via RS232 and RS485 serial interfaces)
- Programmable automatic test and maintenance
- Alarm, message and error codes
- Extensive possibilities of input/output function and operating parameter programming
- 144x144mm size
- Reading display: voltage between lines of the mains, single phase voltage and frequency of the generator, battery voltage, operating hours of the generator, etc.

Operational characteristics

- SUPPLY CIRCUIT**
 Battery supply (Us): 12VDC or 24VDC
 Operating range at 12V: 6.2-16.5VDC
 Operating range at 24V: 13-33VDC
- MAINS VOLTAGE CONTROL CIRCUIT** (single or three phase)
 Operating range: 70-624VAC
 Rated frequency: 50 or 60Hz (keypad configured)
- Min. voltage tripping adjustment: 0.7-1Ue
 Max. voltage tripping adjustment: 1-1.2Ue (>20% disabled control)
- Asymmetry tripping: 5-20% Ue (3 phase only)
- GENERATOR VOLTAGE CONTROL CIRCUIT** (single phase)
 Operating range: 70-624VAC
 Rated frequency: 50 or 60Hz (keypad configured)
- Min. voltage tripping adjustment: 0.7-1Ue
 Max. voltage tripping adjustment: 1-1.2Ue (>20% disabled control).

Minimum hardware requirements

For remote control software use, minimum resources are as follows:

- Personal computer with Pentium processor or faster
- At least 16Mb free RAM
- 4Mb free hard disk space
- VGA-compatible graphic card (640x480) or higher resolution
- One free standard RS232 serial interface
- Windows 95/98/NT/2000 operating system.

Certifications and compliance

Certifications obtained: R.I.Na. (Italian Naval Register).
 Compliant with standards: IEC/EN 60255-6, EN 50081-1, EN 50081-2, EN 50062-1, EN 50082-2.