

Automatic mains failure (AMF) gen-set controllers



RGK 600 - RGK 601

new

new



RGK 700 - RGK 800

Order code	Description	Qty per pkg	Wt [kg]
		n°	
RGK 600	12/24VDC, graphic LCD, USB/optical and Wi-Fi point programming port on front, W/Pick-up speed input	1	0.540
RGK 601	12/24VDC, graphic LCD, USB/optical and Wi-Fi point programming port on front, CANbus port	1	0.540
RGK 700	12/24VDC, graphic LCD, with RS232 port and USB/optical and Wi-Fi point programming port on front, CANbus port, IP65	1	0.880
RGK 800	12/24VDC, graphic LCD with RS485 port and USB/optical and Wi-Fi point programming port on front, CANbus port, IP65. Expandible with EXP... modules	1	0.880

Programmable functions and properties

Characteristic	RGK 600	RGK 601	RGK 700	RGK 800
Inputs	5	5	7	9
Relay outputs	–	–	3	3
Protected static outputs	6	6	4	7

Order code	Description
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ACCESSORY FOR RGK 600 AND RGK 601

RGK X00	IP65 gasket seal for internal display frame
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EXPANSION MODULES FOR RGK 800

Inputs and outputs.

EXP10 00	4 opto-isolated digital inputs
EXP10 01	4 opto-isolated static outputs
EXP10 02	2 digital inputs and 2 static outputs, opto-isolated
EXP10 03	2 relay outputs rated 5A 250VAC
EXP10 04	2 opto-isolated analog inputs 0/4-20mA or PT100 or 0-10V or 0...±5V
EXP10 05	2 opto-isolated analog outputs 0/4-20mA or 0-10V or 0...±5V
EXP10 08	2 opto-isolated digital inputs and 2 relay outputs rated 5A 250VAC

Communications interface.

EXP10 10	Opto-isolated USB interface
EXP10 11	Opto-isolated RS232 interface
EXP10 12	Opto-isolated RS485 interface
EXP10 13	Ethernet interface with Web server function
EXP10 15	GPRS/GSM modem

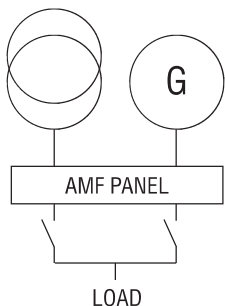


EXP 10...

new

new

AMF (AUTOMATIC MAINS FAILURE) APPLICATION



General characteristics for

RGK 600 - RGK 601 - RGK 700 - RGK 800

- VAC inputs: Mains and generator L1-L2-L3-N
- Voltage control for one, two and three phase systems with or without neutral
- Rated measurement voltage:
 - 480VAC for RGK 600 and RGK 601
 - 600VAC for RGK 700 and RGK 800
- Rated measurement voltage range:
 - 50-576VAC for RGK 600 and RGK 601
 - 30-720VAC for RGK 700 and RGK 800
- Frequency measurement range: 45-65Hz
- Programmable VT ratio
- Current measurement range (3 PH): 0.050-6A or 0.050-1.2A
- Graphic LCD: 128x80 pixels with backlight
- 1 USB/optical and Wi-Fi port on front for programming
- Engine running detection: “D+”, generator voltage and frequency
- 2 engine speed inputs: “W” or Magnetic “Pick-up” (RGK 601 excluded)
- 1 CANbus-J1939 port (RGK 600 excluded)
- 3 analog ohmic inputs for oil pressure, engine temperature and fuel level control
- 1 built-in alarm remoting port
- Non-volatile memory for event storage
- Alarm, event and parameter text in 5 languages
- Alarm text customisable (8 alarms)
- Event log
- Modbus-RTU and Modbus-ASCII communication protocols
- Customisation manager software available; compatible with Synergy software.

For RGK 700 – RGK 800 only

- PLC logic for inputs, outputs and internal status
- 1 communication port: RS232 for RGK700; RS485 for RGK 800
- Degree of protection: IEC IP65 on front; suitable for use with UL/CSA Type 4X outdoor enclosure installation.

For RGK 800 only

- Neutral current measurement range: 0.050-6A or 0.050-1.2A
- 400Hz frequency support
- 1 programmable analog input
- Modbus-TCP communication protocol
- Current leakage control towards earth/ground
- Clock-calendar (RTC).

MAIN FUNCTIONS FOR RGK 600-RGK 601-RGK 700-RGK 800

- Menus for quick selection of rated parameter settings
- “Autocall” function for automatic sending of emails and/or SMS at predefined events/alerts
- Generator controls: Phase sequence, maximum and minimum voltage and frequency, voltage asymmetry
- Programmable maintenance.

Certifications and compliance

Certifications obtained: EAC; UL Listed, for USA and Canada (cULus - File E93601), as Auxiliary Devices - Generator controllers.

Compliant with standards: IEC/EN 61010-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, UL 508, CSA C22.2 n° 14.

Synergy supervision software

See Section 27.

EXP series expansion modules

See Section 28, page 2.