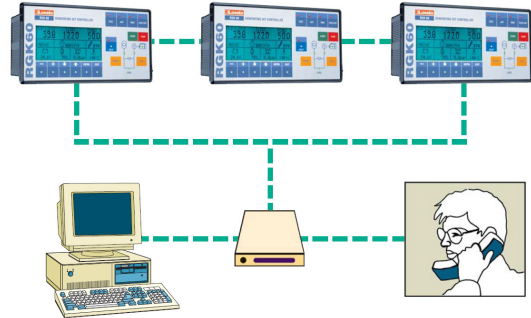


**GENERATING SET & TRANSFER SWITCH CONTROLLER**

**BENEFITS**

- ⊕ Outstanding functions & user-friendliness
- ⊕ Complete protection & data display
- ⊕ Optional remote communication simplified
- ⊕ Ideal for export projects
- ⊕ Reliable at extreme temperatures
- ⊕ Transfer switch control available

**GENERAL FEATURES**

- For AC systems from 120 to 600 Vac, 1 & 3 phases, 50 & 60Hz
- Complete power & instrumentation display
- Normal & Generator power information display
- Automatic or manual start possibility
- Telecommunication interface included (RS-232)
- Plug-in terminal
- Complete documents for the installation & setup
- CSA Approved (UL & cUL)
- Temperature and oil pressure sender selected
- Large LCD graphic display with backlight, functional at -30°C
- Liquid proof (IP 64) Front panel
- No PT's are required for nominal voltage system ≤ to 600 Vac
- Quick-connect terminal block
- Operating temperature from -30°C to 60°C
- 12 programmable digital [contact] inputs
- 7 internal output relays
- Predefined sender models or manual configuration allowed
- Buttons: START/ STOP/ TEST/ AUTO/ MAN/ RESET-OFF/ HELP/ MAIN/ GEN
- Choice of 5 languages
- Events, help & alarm text are editable
- Information on status, alarms and events
- Events and data recording
- Automatic call\* to a remote PC on specific fault or event
- More than 125 system parameters in flash memory
- Help menu for explanation of the remaining operation
- Weekly Exerciser
- Modbus protocol available for PLC communication
- Fast setup on site by the controller keypad or by using an Windows software\*
- Powerful software\* available for programming, controlling and monitoring.

**List of alarms:**

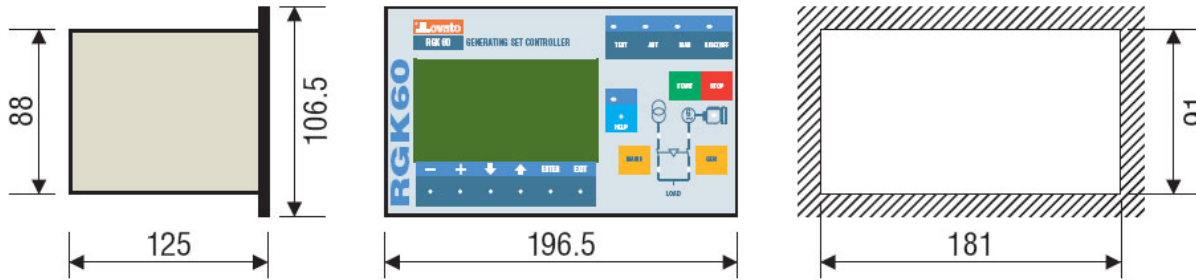
- Pre-alarm & shutdown on high coolant temperature [analogue]
  - High coolant temperature [digital]
  - individual analogue (4) and digital (1) sender fault
  - Pre-alarm & shutdown on low oil pressure [analogue]
  - Low oil pressure [digital]
  - Pre-alarm & shutdown on low fuel level [analogue]
  - Low fuel level [digital]
  - High, low & very low battery voltage
  - Defective battery charge alternator
  - Speed signal lost (magnetic pickup)
  - Low / high frequency
  - Defective starter
  - Emergency stop
  - Unexpected stop
  - Engine stop failure
  - Low / high generator frequency
  - Low / high generator voltage
  - Asymmetry / short-circuit & generator overload
  - External generator protection tripping
  - Incorrect generator phase sequence
  - Incorrect main phase sequence
  - Incorrect system frequency setting
  - Main / Generator contactor failure
  - System error
  - Maintenance requested
  - Fuel transfer tank empty
  - Fuel transfer tank too full
  - Rent hours exhausted
  - 4 spear faults\*.
- Note: \* = option

**Display – Main screen (like the picture above)**

- Battery voltage (Vdc)
- CA Current & voltage (3 phases) / frequency / hour meter
- Fuel level (%) / oil pressure / coolant temperature
- Maintenance timer (hours).

**Display – Other information available**

- Voltage ph. to ph., ph. to neutral for main & generator sides
- Active, reactive & apparent power / active-reactive energy
- Power factor for each phase
- Engine speed (RPM).
- Total number of starting attempts & percentage of successful starting attempts
- All parameters & status of the system
- Event messages & help.

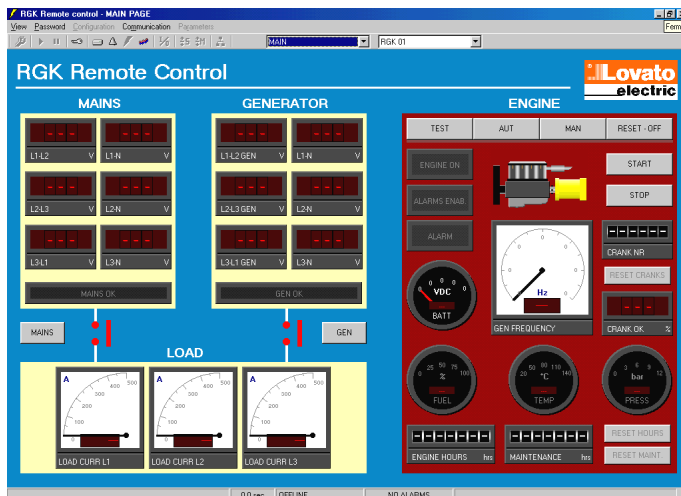


**General specifications**

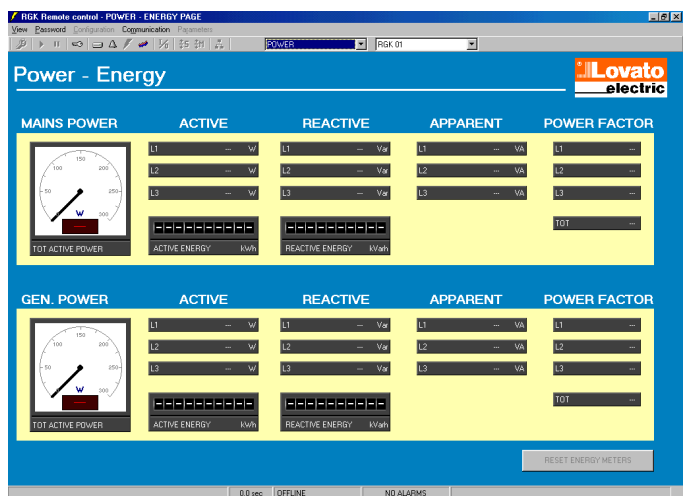
<b>Power supply:</b>		<b>Relay output terminal: power control</b>	
Battery rated voltage	12 or 24 Vdc	Contact type	1 NC ("normal") 1 NO ("generator")
Voltage range	9 to 33 Vdc	Rated voltage	250 Vac (440 Vac max)
Minimum voltage at starting	6.7 Vdc	Rated current	8 A.
<b>Voltage inputs:</b>		<b>Relay output terminal: common fault contact</b>	
Voltage range	50 to 620 V L-L (358 Vac L-N)	Contact type	1 NO – 1NC
Frequency range	45 to 65 Hz	Rated voltage	250 Vac max
Measuring method	RMS	Rated current	8 A
Wiring mode	1, 2 or 3 phases, with or without neutral	<b>Relay output terminal: buzzer, fuel, starter.</b>	
<b>Current inputs:</b>		Contact type	1 NO
Current range	0.02 to 6 A. RMS	Rated voltage	30 Vdc
<b>Analog inputs:</b>		Rated current	5 A
Pressure current sensor	20 mA max	<b>Measuring characteristics (at -10 to +45°C):</b>	
Temperature current sensor	7 mA max	Voltage / current	±1% ± 1 digit
Level current sensor	10 mA max	Frequency	±0.2% ± 1 digit
<b>Speed inputs:</b>		Power	±2% ± 1 digit
Voltage range	5 to 50 Vp-p	Energy	±2% ± 1 digit
Frequency range	25 to 5000 Hz	<b>Housing:</b>	
		Temperature operation	-30 to +60°C
		Storage temperature	-30 to +80°C
		Relative humidity	< 90%
		Dimensions	

<b>CODE</b>	<b>STANDARD</b>
<b>RGK60</b>	RGK60 programmable controller with plug-in terminals and manual.
<b>RGK60-PK</b>	Controller RGK60 – with magnetic pick-up input, + 2 output, + 4 digital input
<b>CODE</b>	<b>OPTION</b>
<b>RGK-ZSD</b>	Standard (VDO) Sender for oil pressure & coolant temperature circuits;
<b>RGK-ZPROG</b>	Programmed at our plant.
<b>RGK-SW10</b>	Windows (XP to Win7) software SW10 for local set-up, including cable
<b>RGK-SW20</b>	Windows (XP to Win7) software SW20 for remote control and set-up, including cables (see pictures below).
<b>RGK-X01</b>	Expansion Card with: isolated RS-485 port + 12 days clock reserve + 2 other digital outputs.
<b>RGK-ZC485</b>	RS232 - 485 converter for RGK-X01 communication, 1x RS232 cable, configured
<b>RGK-ZMODD</b>	Industrial modem 12 Vdc, configured and tested for the RGK60, c/w RS-232 cable

***Do not hesitate to contact us if you need information on these softwares***



Main display of the SW20 remote control software.



Power display of the SW20 software.