

GenOnCall® GC4K

Auto Start Genset Control & Protection Module for non-Electronic Engine

Features

- 7-inch IPS display panel with resolution 1280 x 800 and front panel meets IP65
- User-friendly, intuitive touch-screen interface to input all settings
- Integrated, modular design control panel with Mode Selector Switch, Emergency Stop Button, and Alarm Speaker
- Digital and Analog gauge displays for all electrical parameters
- Wi-Fi, 3G/4G/5G Mobile Router and physical Ethernet network connections
- Free iOS and Android GenOnCall® App download enables remote operation, monitoring and configuration for smart phone or tablet
- Choice of Chinese, English, Spanish language display
- Engine Start Voice Warning broadcast in ten most common languages – also allows for user recorded engine start voice warnings
- Free online updates of controller firmware and GenOnCall® apps
- Provides generator location services (GPS)
- Push notification for Engine Start / Stop and Fault Alarms – records up to 250 events
- Real-time graphic display of AC current and voltage curves
- Transfer Settings function (dump function) eliminates need to program each controller individually



- Supports Modbus / SNMP / RS-485 protocols (via optional modules)
- Allows for one Operator and up to seven Viewers to connect simultaneously for remote monitoring and control
- Battery power removed and Genset position Shifted alarm for theft alert
- Two user-defined outputs and inputs for control or protection
- Engine block heater control for use in cold climates
- High-precision Ceramic Capacitive oil pressure and digital coolant temperature senders are standard

System Protections and Fault Alarms

- Full phase Over Voltage / Under Voltage and lost phase
- Current overload
- High Coolant Temperature
- Low Oil Pressure
- Engine Over Speed / Under Speed protection
- Low Fuel Level
- Charging Alternator failure
- Battery abnormal voltage
- Scheduled Maintenance notification
- Emergency Stop alarm
- Wi-Fi signal strength too low warning
- User-defined input
- Coolant Temperature sender and oil pressure sender failure

Color Touch-screen Displayed Parameters

- AC power parameters – $V_{(RMS)}$, $A_{(RMS)}$, Hz, KW, KWH, KVA, KVAR & PF
- Operating Hours / Maintenance Hours / DC Battery Voltage
- Operating Temperature ($^{\circ}C$ or $^{\circ}F$), Oil Pressure (PSI or Bar) and Fuel Level (%)
- Real-time graphic displays of current and voltage power quality
- Records up to 250 events – Engine Start / Stop and all Fault Alarms
- Genset GPS location map (only on remote monitoring app)

Specifications

DC Supply	9 to 40 Vdc	Temperature Sender (TS-03)	-55 to +125 $^{\circ}C$ +/-2 $^{\circ}C$
AC Voltage Input	15 to 500 Vac (Phase to Phase)	Oil Pressure Sender (OPS-02)	0 to 150 PSI +/-2.5%
AC Voltage Frequency	50/60 Hz	Fuel Level Sender	0 to 480 ohms
USB	USB 2.0	Magnetic Pick-up (MPU)	2 to 70 Vac / 100 Hz to 10K Hz
Static Power Consumption	GC4K: below 1W GC4K-D07: below 3W	Current Transformer (CT)	25 to 3000A / 5A or 1A Rated burden greater than 2.5 VA

Environment

Operating Temperature	-20 to +60 $^{\circ}C$
Relative Humidity	Max. 95%
Maximum Vibration	5.0 Gs @ 60 Hz

Physical Specifications

GC4K	287.6 (L) x 160.0 (W) x 53.0 (H) mm	480 g +/-2%
GC4K-D07	233.0 (L) x 202.0 (W) x 82.0 (H) mm	730 g +/-2%
GC4K-D10	400.0 (L) x 242.0 (W) x 78.0 (H) mm	820 g +/-2%

Standard Accessories

GC4K-D07 Operator Display	x 1	OPS-02 Oil Pressure Sender	x 1
GC4K Control Unit	x 1	OPS-02 Cable (2.5 meters)	x 1
A-type USB Cable (1 meter)	x 1	TS-03 Temperature Sender	x 1
DB9 Cable (1 meter)	x 1	TS-03 Cable (2.5 meters)	x 1
Mounting Screws	x 1	User Manual DVD	x 1

Optional Accessories

ModBus Communication Module (KCU-05)
SNMP Communication Module (KCU-06)
OPS-02 Cable (5 meters)
TS-03 Cable (5 meters)

