

# 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

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

### Environment

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

### Physical Specifications

<b>GC4K</b>	287.6 (L) x 160.0 (W) x 53.0 (H) mm	480 g +/-2%
<b>GC4K-D07</b>	233.0 (L) x 202.0 (W) x 82.0 (H) mm	730 g +/-2%
<b>GC4K-D10</b>	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)

