

# GCU-5K

## Auto Start Control & Protection Module for Generator

### Features

- 7" color LCD panel, screen resolution 800 x 480, waterproof rating IP65.
- Provides 18 power measurement readings displayed in both digital and graphical needle meter mode. The graphical needle meter can be freely specified.
- Display interface options: Traditional Chinese, English, Japanese, Spanish.
- Integrated modular design equipped with emergency stop button saving assembly time and cost
- Built-in Wi-Fi for network connectivity, no additional modules required.
- Loudspeaker for Engine pre-start warming, support 10 languages.
- Supports reading and displaying ECU (SAE J1939) engine parameters.
- The display integrates radar sensor technology; the screen will automatically illuminate from sleep mode when it detects an approaching person.
- Automatic fuel supply control between main and reserve tanks.
- 5 user configurable DC outputs and 5 user configurable inputs
- Optional Modbus-RTU / Modbus-TCP/IP / SNMP / Ethernet communication module is available.
- Free iOS and Android GenOnCall® App for user to download
- ✳ **The blue text indicates remote connection feature. KUTAI offers a 60 days free trial for the remote connection feature, allowing user to monitor the generator set anytime.**



- Allows one operator and up to seven viewers to remotely operate, monitor the status, and adjust all relevant settings for the generator set via network access simultaneously.
- Using WPS, the GenOnCall® app can display the position of the generator set on the map.
- Offer push notifications for Start / Stop / Fault messages and up to 250 event logs for queries.

### System Protections and Fault Alarms

- Full phase Over Voltage / Under Voltage and lost phase
- Current overload
- High Coolant Water Temperature
- Low Oil Pressure
- Engine Over Speed / Under Speed
- Low Fuel Level
- Low Coolant Water Level
- Battery abnormal voltage
- Scheduled Maintenance notification
- Emergency Stop alarm
- Temperature, Oil pressure and Fuel level sender failure
- User configurable inputs
- Charging Alternator failure

### Color LCD Displayed Contains

- AC power measurement readings – V(RMS), A(RMS), Hz, KW, KWH, KVA, KVAR, RPM & PF
- Running Hours / Maintenance Hours / Battery Voltage
- Coolant Water Temperature (°C or °F), Oil Pressure (Psi or Bar) and Fuel Level (%)
- Records up to 250 events for Engine Start / Stop and all Fault Alarms

### Specifications

|                          |                               |                          |                             |
|--------------------------|-------------------------------|--------------------------|-----------------------------|
| DC power input           | 9 – 40 Vdc                    | Water Temperature Sender | VDO 0 to +120 °C            |
| AC power input           | 15 – 500 Vac (Phase to Phase) | Oil Pressure Sender      | VDO 0 to 150 Psi            |
| AC power frequency       | 50/60 Hz                      | Fuel Level Sender        | 0 to 480 Ohm                |
| Wi-Fi protocol           | IEEE802.11 b/g/n              | Magnetic Pickup (MPU)    | 2 – 70 Volts / 100 – 10K Hz |
| Static Power Dissipation | GCU-5KC : less than 1W        | Rated CT Capacity        | Greater than 2.5VA          |
|                          | DP-70G : less than 3W         | CT Primary Side Ratio    | 50 to 3000A                 |
|                          |                               | Secondary Side Ratio     | 5A / 1A                     |

### Environment

|                       |                |
|-----------------------|----------------|
| Operating Temperature | -20 to +60 °C  |
| Relative Humidity     | Max. 95%       |
| Vibration             | 5.0 Gs @ 60 Hz |

### Physical Specifications

|                 |                                         |              |
|-----------------|-----------------------------------------|--------------|
| GCU-5KC         | 283.0 (L) x 161.5 (W) x 53.0 (H) mm     | 570 g +/-2%  |
| DP-70G          | 280.0 (L) x 175.0 (W) x 54.0 (H) mm     | 1150 g +/-2% |
| Panel Cutout    | 260.0 x 155.0 mm                        |              |
| Board thickness | 6.0 mm (Max. allowable board thickness) |              |

### Standard Accessories

|                      |     |                         |     |
|----------------------|-----|-------------------------|-----|
| DP-70G Display unit  | x 1 | VDO Oil Pressure Sender | x 1 |
| GCU-5KC Control Unit | x 1 | VDO Temperature Sender  | x 1 |
| DB9 Cable (1 meter)  | x 1 |                         |     |
| Mounting Screws      | x 1 |                         |     |

### Optional Accessories

|                                                     |
|-----------------------------------------------------|
| Modbus-RTU Communication Module (KCU-05)            |
| SNMP Communication Module (KCU-06)                  |
| Modbus TCP/IP Communication Module (KCU-07)         |
| Ethernet (Dynamic IP) Communication Module (KCU-31) |



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