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.
- Equipped with internal timer to implement screen protection mode, extending the screen's lifespan.
- 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

- 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.

※ **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.**

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)

ISO 9001
ETC