

NeoGCP i7

Digital Genset Control Panel



. ICD (주) 아이씨디

ICD ICD CO., LTD



General

Digital control system using MICOM

Hangul and English display of applying the graphic LCD(192 x 64)

OVR (constant, Inverse), UVR (constant), OCR (constant, Inverse), OCGR (constant, Inverse) Built

Fast and accurate voltage, current measurement (1%)

Operation mode: block, manual operation, automatic operation, fire starting

The differentiated protection class of seven stages

Reservations can be equipped with a REAL-TIME function

AMF (Auto Mains Failure) function using a single-phase / three-phase voltage or UVR contacts

Up to 30 pieces of failure history or failure when the generator of data can be browsed

All input contacts, output relays user settable

Using the installation and maintenance simple **detachable (EURO TYPE) Terminal Block**

Built-in RS485 communication port - Supports MODBUS RTU protocol (04h, 05h)

LCD Display

Operation mode, the current sequence and progress, contact / relay input and output state

Active power [kW], L-L average Voltage of generator output[V], Average current of generator

output [A], Power factor [PF]

Frequency(Hz), RPM, Battery Voltage(V)

L-L Voltage of generator output[V], L-N Voltage of generator output[V]

Current of generator output [A], Ground current(A), Power factor [PF]

Apparent power [KVA], Reactive power [kvar]

1 phase/ 3 phase Voltage of grid [V]

Coolant temp. [°C], Lube oil press. [bar], Lube oil temp. [°C], Ambient temp. [°C], Fuel level [%]

KW Hour [KWh], Kvar Hour [Kvarh]

Operation hour [Hour], , Current date and time

NeoGCP i7

Protection

Protection class of 7 step stages

Not use, Warning, Trip, Stop, Shutdown, Trip+Stop, Trip+Shutdown

Body

Over voltage(constant/ inverse), Under voltage(constant), Over Current(constant/ inverse),

Over current of Ground(constant/ inverse), Over frequency, Under frequency

Engine

Over speed , Under speed, Over voltage of battery, Under voltage of Battery

Sensor input

Coolant over/ under temp., Lube oil over/ under press., Lube oil over/ under temp. , Ambient over/ under temp., Fuel level min/ max

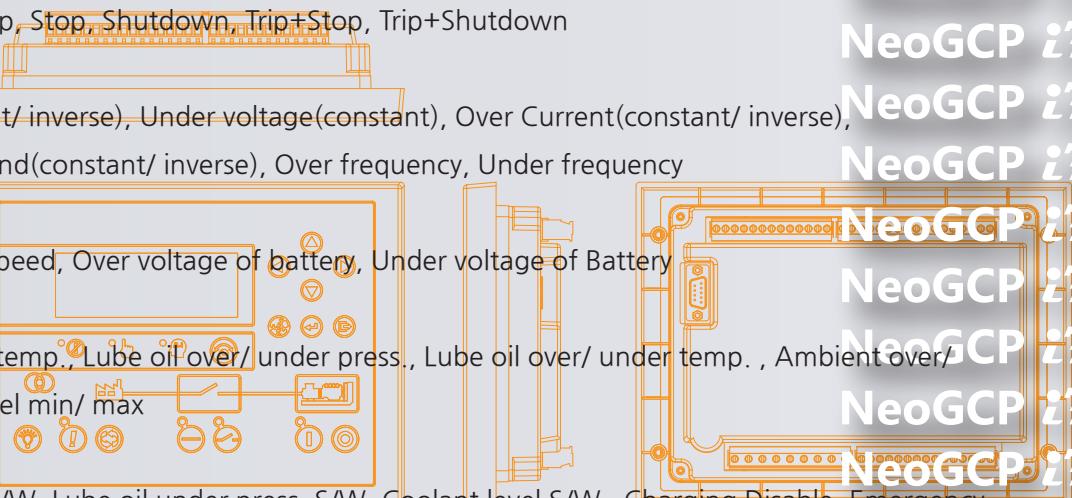
Switch input

Coolant over temp. S/W, Lube oil under press. S/W, Coolant level S/W , Charging Disable, Emergency

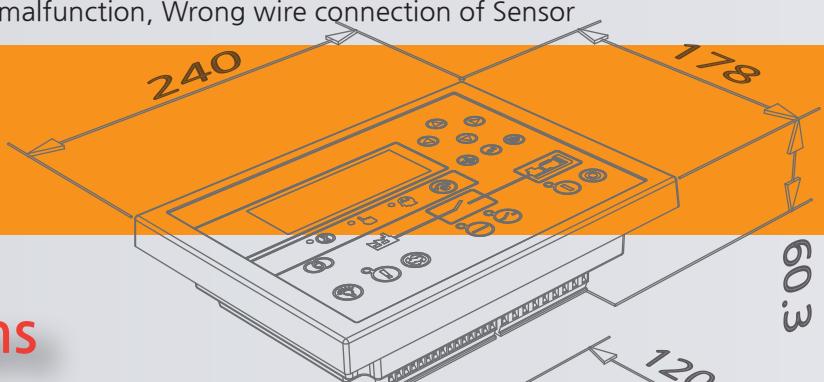
stop, 1~ 10 input contacts

Etc

Starting failure, ACB malfunction, Wrong wire connection of Sensor



Dimensions



Dimension : (W)240mm X (H)178mm X (D)60.3mm

Weight : 1.1kg

Input Voltage : DC 8~32[V]

Max. consumption power : 5.0[W]

Ambient operating temp. range : -25[°C] ~ 70[°C]

Input range of CT : AC 0~5[A]

Input range of gen's voltage : AC 0~550[V]

Input of mains power : AC 0~550 [V]

Input of MPU : AC 0.7[V] min.

Digital input : 10 points(Total 18 points using extension module), Control power supply (-) input,

When used in the fault signal, the user of the message can be entered

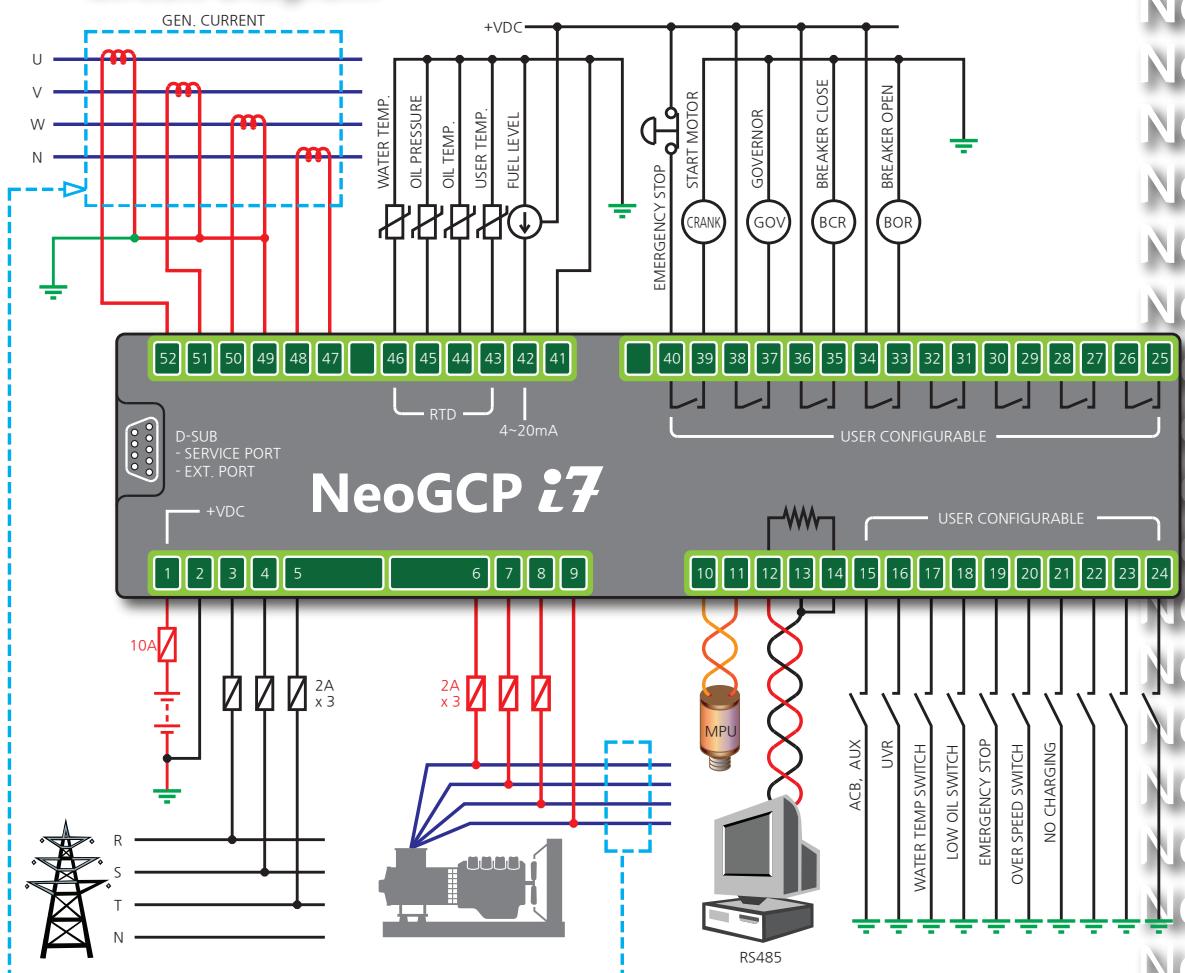
Digital output : 8 points(Total 18 points using extension module), AC 250[V] 5A

LED display : Fault, Block mode, Manual operation, Auto operation, Main status, ACB close/ open, Running

New Geinus Control Panel

NeoGCP i7

Circuit Diagram



Connection Table

1	VDC +	Input power for controller
2	VDC -	DC 8~32[V]
3	MAIN R	Input voltage from Grid
4	MAIN S	Input 1P-2W or 3P-3W
5	MAIN T	MAX AC 550[V]
6	GEN PT U	Input Generator Operating voltage
7	GEN PT V	Input 1P-3W, 3P-3W, 3P-4W
8	GEN PT W	MAX AC 550[V]
9	GEN PT N	

10	MPU +	Input Magnetic pick-up signal MIN AC 0.7[V]
11	MPU -	
12	RS485 +	RS485 Communication port
13	RS485 -	
14	RS485 END	Terminating resistance
15	DI 1	
16	DI 2	
17	DI 3	
18	DI 4	
19	DI 5	
20	DI 6	
21	DI 7	
22	DI 8	
23	DI 9	
24	DI 10	Digital Input You can select items at Menu. Using for fault, function and control Relay DC- Input

Input the output Current[A] of Generator Operating CT Use 1~5[A] the output Current CT	52 51 50 49 48 47
Input ZCT Current[A] for detecting CCR Use 1~5[A] the output Current CT	
Input Coolant Temp. Sensor (RTD)	SENSOR 1
Input Lube Oil Press. Sensor (RTD)	SENSOR 2
Input Lube Oil Temp. Sensor (RTD)	SENSOR 3
Input Ambient Temp. Sensor (RTD)	SENSOR 4
Input Fuel Level Sensor (4~20mA)	SENSOR 5
Common Sensor -	SENSOR -
	41

Relay Output Output with Dry Contact You can select items at Menu. Max 5[A] Output	40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25
---	--