



Hangul and Korean display with 192 x 64 graphic LCD

Fast and accurate voltage and current measurement(error rate: ~1%)

- 7-level differentiated protection class
- AMF (AUTO MAINS FAILURE) function using single and 3 phase voltage or UVR contact.
- Up to 50 failure histories can be stored and generator data can be viewed
- All input/output contacts are user-configurable
- Detachable (EURO TYPE) terminal block for easy installation and maintenance
- Built-in RS485 communication port - Support
- MODBUS RTU protocol (04h, 05h)
- Up to 8 extension modules (EP20) can be used and 64 output contacts can be set
- Analog Input extension: up to 8
(4 points: RTD / 4 points: 4~20[mA])
- Digital Input extension: up to 8
- Digital Output extension: up to 72 (AC 250[V] 5[A])

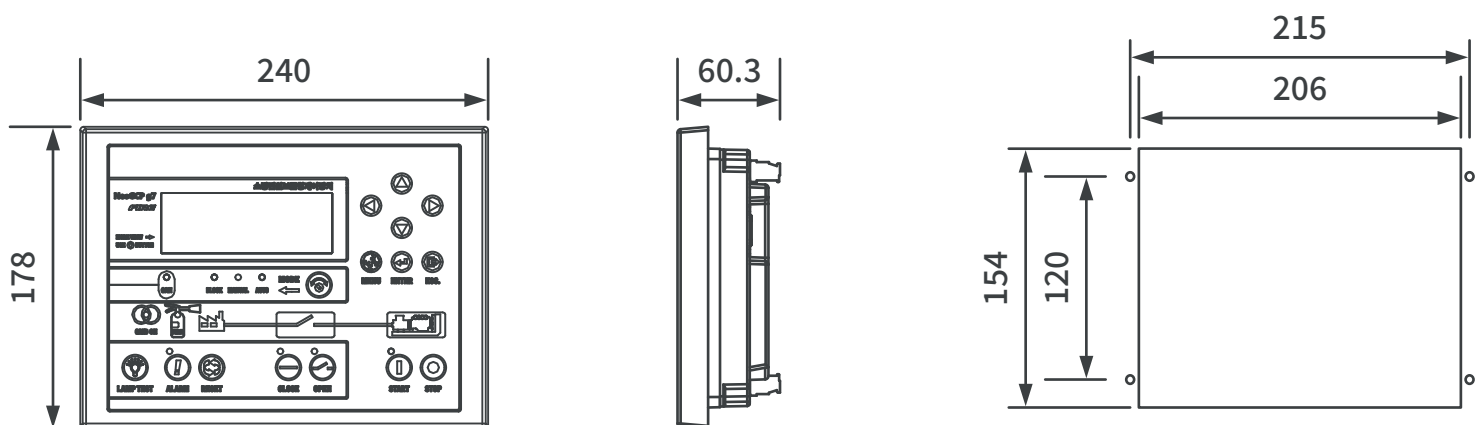
Specification

- Supply voltage: DC 8 ~ 32 [V]
- Max. power consumption: 5.0 [W]
- Operating temperature: -25 ~ 70 [°C]
- Input current: AC 0 ~ 5.0 [A]
- Input voltage of Mains and Generator:
AC 0 ~ 550 [V] (Power Outage Detection:
input contact / single phase / 3 phase)
- Digital input ports: 10 points / DC 24 [V]
signal input should be (-)
- Digital output ports: 8 points / AC 250[V] 5[A]
- MAGNETIC PICK-UP port: 0.5 ~ 70 [V]
- RS-485 port: 1 point
- D-SUB port: 1 point
- Sensor input port: 5 points
(1 point: 4~20 [mA] / 4 points: RTD)
- Weight: 1.1 Kg

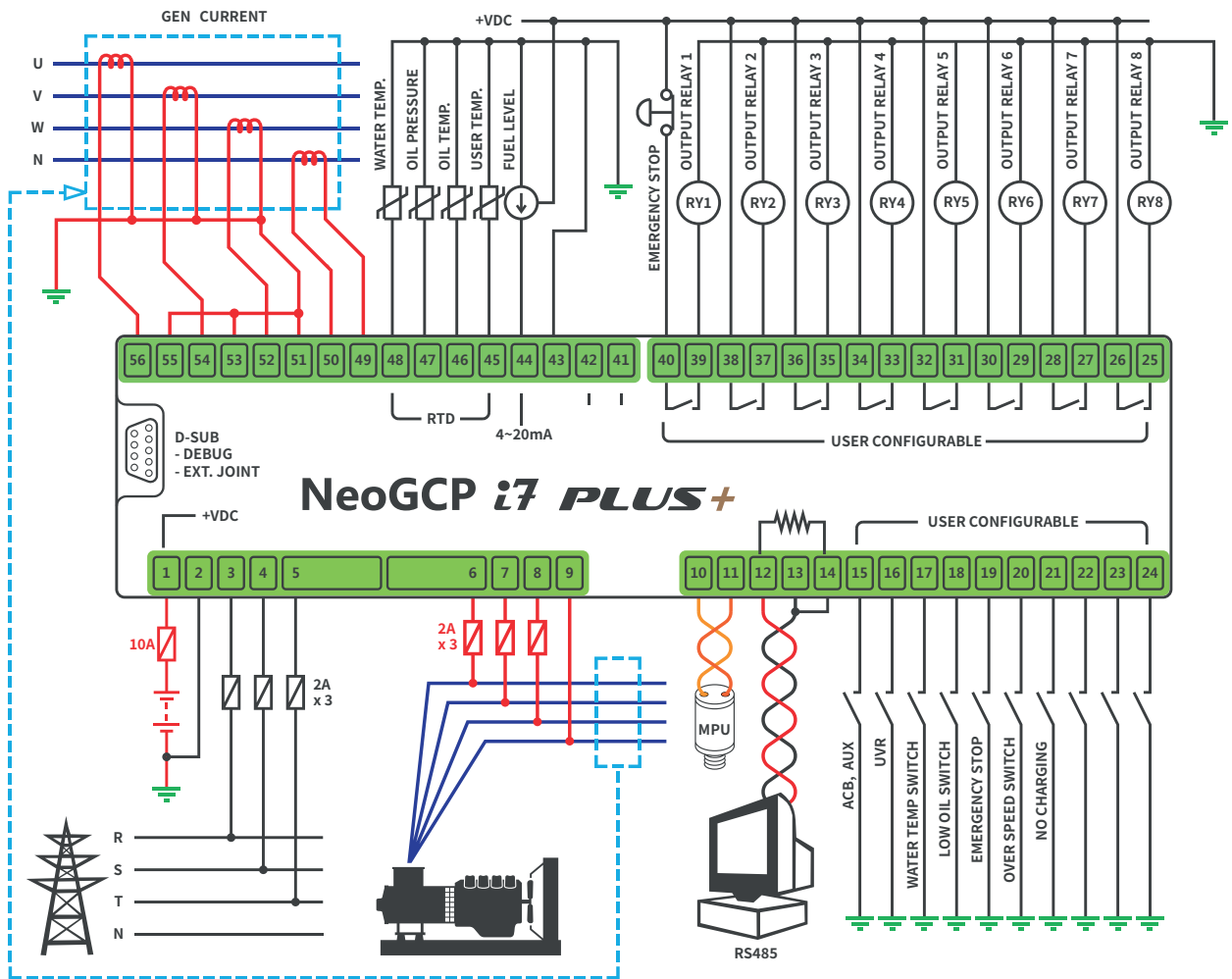
Accessory

- EP20
- RS-485 converter
- LAN converter

Dimension (Unit: mm)



Circuit Diagram



Connection Table

1	VDC +	Supply voltage DC 8~32[V]
2	VDC -	
3	MAIN R	Mains Voltage Input
4	MAIN S	1P-2W or 3P-3W
5	MAIN T	Max. AC 550[V]
6	GEN PT U	Gen-set Voltage Input 1P-3W, 3P-3W, 3P-4W Max. AC 550[V]
7	GEN PT V	
8	GEN PT W	
9	GEN PT N	

10	MPU +	Magnetic Pick-up Input Min. AC 0.7[V]
11	MPU -	
12	RS485 +	RS485 Com. port Input
13	RS485 -	
14	RS485 END	Terminating resistance of 120 [Ω] when connected to RS485
15	DI 1	Digital Input Items can be set in the menu Used as fault, function, and control contact Signal input should be (-)
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	

Gen-set Current Input (CT 2nd) 0.01~10 [A], Max 10 [A], Peak 1 [s] 1P-3W : L1-52, N-49, L2-51 1P-2W : L1-52, N-49	GEN CT U+	56
	GEN CT U-	55
	GEN CT V+	54
	GEN CT V-	53
	GEN CT W+	52
Gen-set Ground Current Input (CT 2nd) 0.01~10 [A], Max 10 [A], Peak 1 [s]	GEN CT W-	51
	GEN ZCT /	50
Coolant Temp Sensor Input (RTD)	GEN ZCT \	49
	SENSOR 1	48
	SENSOR 2	47
	SENSOR 3	46
	SENSOR 4	45
Fuel Level Sensor Input (4~20mA)	SENSOR 5	44
Sensor Common (-)	SENSOR -	43
		42
		41

Digital Output Output with no-voltage contact Items can be set in the menu Max. 5[A]	RELAY 1	40
	RELAY 2	39
	RELAY 3	38
	RELAY 4	37
	RELAY 5	36
	RELAY 6	35
	RELAY 7	34
	RELAY 8	33
	RELAY 5	32
	RELAY 6	31
	RELAY 7	30
	RELAY 8	29
		28
		27
		26
		25