

1. Specifications

Δ Standard spec.

Model		NC2438	NC2638	NC2738	NC2538	NC2838
Dimension		48X48mm	96X48mm	72X72mm	48X96mm	96X96mm
Supply voltage		AC 85~265V , DC 15~50V (Option)				
Frequency		50 / 60 HZ				
Power consumption		approx 3VA	approx 4VA	approx 3VA	approx 4VA	approx 4VA
Input	Accuracy	0.2 % FS $\pm$ 1digit				
	Sample time	250ms				
	TC	K , J , R , S , B , E , N , T , W5Re/W26Re , PLII , U , L				
	RTD	PT100,JPT100,JPT50				
	mA DC	4~20mA , 0~20mA				
	mV / V DC	0~1V, 0~5V, 0~10V, 1~5V, 2~10VDC -10~10mV, 0~10mV, 0~20mV, 0~50mV, 10~50mV				
	Decimal point position	0000 , 000.0 , 00.00 , 0.000 Available for linear input (mA / mV / V)				
Output 1	Relay	SPST type	SPDT type	SPST type	SPDT type	SPDT type
		3A , 220V , electrical life:100,000 times or more (under rated load)				
	Voltage pulse	For SSR drive. ON : 24V , OFF : 0V , max load current : 20mA				
	mA DC	4~20mA, 0~20mA. Maximum load resistance:560 Ω				
	Voltage DC	0~5V , 0~10V , 1~5V , 2~10V . Max load current:20mA				
Alarm 1		3A , 220V , electrical life:100,000 times or more (under rated load)				
Control algorithm		PID , PI , PD , P , ON / OFF(P=0) , FUZZY				
PID range		P: 0.0 ~ 200.0 % , I: 0~3600s , D: 0~900s				
Isolation		Output terminals(control output , alarm , transmission) and input terminals are isolated separately				
Isolated resistance		10M Ω or more between input and case (ground) at DC 500 V 10M Ω or more between output and case (ground) at DC 500 V				
Dielectric strength		1000V AC for 1 minute between input terminal and case (ground) 1500V AC for 1 minute between output terminal and case (ground)				
Operating temperature		0~50°C				
Humidity range		20~90%RH				
Weight		150g	225g	225g	225g	300g
Display Height		PV:7mm SV:7mm	PV:7mm SV:7mm	PV:14mm SV:10mm	PV:7mm SV:7mm	PV:14mm SV:10mm

* Optional Spec.

Model	NC2438	NC2638	NC2738	NC2538	NC2838
Output 2	For heating and cooling control use. Relay , SSR , 4~20mA , 0~20mA , 0~5V , 0~10V , 1~5V , 2~10V				
Alarm 2	SPST type	SPDT type	SPST type	SPDT type	SPDT type
	3A , 220V , electrical life:100,000 times or more (under rated load)				
Alarm 3	Not available	Available SPST type	Available SPST type	Available SPST type	Available SPST type
	3A , 220V , electrical life:100,000 times or more (under rated load)				
Heater Break Alarm (HBA)	Display range of heater current : 0.0~99.9A , Accuracy : 1%FS				
	Included CT : SC-80-T (5.8mm dia , 0.0~80.0A) or SC-100-T (12mm dia , 0.0~99.9A)				
	Alarm relay : AL1				
Transmission	Available for PV or SV transmission 4~20mA , 0~20mA , 0~1V , 0~5V , 0~10V , 1~5V , 2~10V				
Remote SV	4~20mA , 0~20mA , 0~1V , 0~5V , 0~10V , 1~5V , 2~10V				
Communication	Protocol : MODBUS RTU , MODBUS ASCII , TAIE RS232 , RS485 , TTL Baud rate: 2400 , 4800 , 9600 , 19200 , 38400 bps. Data bits : 8 , Stop bit : 1 or 2bit , Odd or Even parity.				
Water/Dust proof	IP65				

* Special control output (OUT1)

Model	NC2438	NC2638	NC2738	NC2538	NC2838
1φ zero crossing control(1φSSR)	Available	Not available	Available	Not available	Available
3φ zero crossing control(3φSSR)	Not available				Available
Motor valve control	Available				
1φ phase angle control(1φSCR)	Not available	Available			
3φ phase angle control(3φSCR)	Not available				Available

* Programmable RAMP/SOAK

Model	NC2438P	NC2638P	NC2738P	NC2538P	NC2838P
Programmable RAMP/SOAK	2 patterns with 8 segments each. The 2 patterns can be linked together as 16 segments use.				