

Order Information

NC Series

Digital PID Controller

Model & Suffix codes

Model	Output1	Output2	Alarm	TRS	Remote SV	Commu- nication	Input Type	Power	Water/Dust Proof
NC-2X38	1	0	1	0	0	0	02	A	N
NC 2438 48x48mm	0 None	0 None	0 None	0 None	0 None	0 None	See Input Codes	A AC 85~265V	N None
NC 2638 96x48mm	1 Relay	1 Relay	1 1 Set	1 4~20mA	1 4~20mA	1 RS232		D DC24V	W IP65
NC 2738 72x72mm	2 Voltage Pulse (SSR Drive)	2 Voltage Pulse (SSR Drive)	2 2 Sets	2 0~20mA	2 0~20mA	2 RS485			
NC 2538 48x96mm	3 4~20mA	3 4~20mA	3 3 Sets	A 0~5V	A 0~5V	3 TTL			
NC 2838 96x96mm	4 0~20mA	4 0~20mA		B 0~10V	B 0~10V	A RS232_MODBUS			
(STANDARD)	A 0~5V	A 0~5V		C 1~5V	C 1~5V	B RS485_MODBUS			
NC 2438P 48x48mm	B 0~10V	B 0~10V		D 2~10V	D 2~10V				
NC 2638P 96x48mm	C 1~5V	C 1~5V							
NC 2738P 72x72mm	D 2~10V	D 2~10V							
NC 2538P 48x96mm									
NC 2838P 96x96mm									
(RAMP/SOAK Programmable)	5 1φSCR zero cross control								
	6 3φSCR zero cross control								
	7 Motor valve control								
	8 1φSCR phase angle control								
	9 3φSCR phase angle control								

Combination of options and models

○ Available ✕ Not available

Options	RAMP/SOAK PROGRAM	Output 1	Output2	Alarm2	Alarm3	HBA	TRS	Remote SV	Communication	Power DC 24V
Model	1φSCR_Z	3φSCR_Z	Motor valve control	1φSCR_P	3φSCR_P					
NC 2438	○	✕	○	✕	✕	○	○	○	○	○
NC 2538	○	✕	○	○	✕	○	○	○	○	○
NC 2638	○	✕	○	○	✕	○	○	○	○	○
NC 2738	○	✕	○	○	✕	○	○	○	○	○
NC 2838	○	○	○	○	○	○	○	○	○	○

Input type table

	TYPE	CODE	RANGE	TYPE	CODE	RANGE	TYPE	CODE	RANGE
TC	K	K1 01	0.0~200.0°C (392.0°F)	K2 02	0.0~400.0°C (752.0°F)	K3 03	0~600°C (1112°F)		
		K4 04	0~800°C (1472°F)	K5 05	0~1000°C (1832°F)	K6 06	0~1200°C (2192°F)		
	J	J1 07	0.0~200.0°C (392.0°F)	J2 08	0.0~400.0°C (752.0°F)	J3 09	0~600°C (1112°F)		
		J4 10	0~800°C (1472°F)	J5 11	0~1000°C (1832°F)	J6 12	0~1200°C (2192°F)		
	R	R1 13	0~1600°C (2912°F)	R2 14	0~1769°C (3216°F)				
	S	S1 15	0~1600°C (2912°F)	S2 16	0~1769°C (3216°F)				
	B	B1 17	0~1820°C (3308°F)						
	E	E1 18	0~800°C (1472°F)	E2 19	0~900°C (1652°F)				
	N	N1 20	0~1200°C (2192°F)	N2 21	0~1300°C (2372°F)				
	T	T1 22	-199.9~400.0°C (752.0°F)	T2 23	-199.9~200.0°C (392.0°F)	T3 24	0.0~350.0°C (662.0°F)		
	W	W1 25	0~2000°C (3632°F)	W2 26	0~2320°C (4208°F)				
	PL.II	PL1 27	0~1300°C (2372°F)	PL2 28	0~1390°C (2534°F)				
RTD	U	U1 29	-199.9~600.0°C (999.9°F)	U2 30	-199.9~200.0°C (392.0°F)	U3 31	0.0~400.0°C (752.0°F)		
	L	L1 32	0~400°C (752°F)	L2 33	0~800°C (1472°F)				
	JPT	JP1 41	-199.9~600.0°C (999.9°F)	JP2 42	-199.9~400.0°C (752.0°F)	JP3 43	-199.9~200.0°C (392.0°F)		
	100	JP4 44	0~200°C (392°F)	JP5 45	0~400°C (752°F)	JP6 46	0~600°C (1112°F)		
	PT	DP1 47	-199.9~600.0°C (999.9°F)	DP2 48	-199.9~400.0°C (752.0°F)	DP3 49	-199.9~200.0°C (392.0°F)		
	100	DP4 50	0~200°C (392°F)	DP5 51	0~400°C (752°F)	DP6 52	0~600°C (1112°F)		
	JPT	JP.1 53	-199.9~600.0°C (999.9°F)	JP.2 54	-199.9~400.0°C (752.0°F)	JP.3 55	-199.9~200.0°C (392.0°F)		
	50	JP.4 56	0~200°C (392°F)	JP.5 57	0~400°C (752°F)	JP.6 58	0~600°C (1112°F)		

	TYPE	CODE	RANGE
LINEAR	AN1	61	-10 ~ 10mV
		62	-2 ~ 2V
		63	-5 ~ 5V
		64	-10 ~ 10V
	AN2	71	0 ~ 10mV
	AN3	76	0 ~ 20mV
	AN4	81	0 ~ 50mV
		82	0 ~ 20mA
		83	0 ~ 1V
		84	0 ~ 5V
		85	0 ~ 10V
		86	0 ~ 5K ohm
AN5		87	0 ~ 2V
		91	10 ~ 50mV
		92	4 ~ 20mA
		93	1 ~ 5V
		94	2 ~ 10V

NIPPON