

Controller Selection Guide



Series No.	½ DIN							¼ DIN	
	CNi32	CN7500	CN132	CN9500	CN74000	CN79000	CN8592	CNi16	CN800
Base Price	£131	£60	£113	£113	£121	£160	£101	£151	£88
Page No.	P-19	P-23	P-24	P-33	P-25	P-84	P-26	P-17	P-27
Input Specifications									
Number of Inputs	1	1	1	1	1	2	1	1	1
Thermocouple Types	J, K, T, E, R, S, B, C, N, L	K, J, T, E, W, R, S, B, L, U	J, K, T, E, R, S, B, N, L	B, E, J, K, L, N, R, S, T	K, J, T, E, N, R, S, B, L, C	J, K, E, N, L	J, K, T	J, K, T, E, R, S, B, N, C, L	J, K, T, R, S
RTD	2-, 3-, 4-Wire 100, 500, 1000 Ω	2-, 3- Wire 100 Ω	2-Wire 100 Ω	2-Wire 100 Ω	2-, 3- Wire 100, 120, 1000 Ω, Nickel		2-Wire 100 Ω	2-, 3-, 4-Wire 100, 500, 1000 Ω	2-, 3-Wire 100 Ω
Process Input	✓	✓	✓	✓	✓		✓	✓	
Other Input Types									
Analog Remote Setpoint									
Display Specifications									
NEMA Faceplate	4X		4X	4X	4X		4X	4X	
Dual Display: PV & SV		✓			✓	✓		✓	
°C/°F Switchable	✓	✓	✓	✓	✓	✓	✓	✓	
Output and Alarm Indicators	✓	✓	✓	✓	✓	✓	✓	✓	✓
Output Specifications									
Number of Control Outputs	2	2	2	2	2	2	2	2	2
Prog. for Reverse/Direct	✓	✓	✓	✓	✓	✓	✓	✓	
Outputs Types Convertible	✓	✓	✓	✓	✓	✓	✓	✓	
Mechanical Relay	✓	✓	✓	✓	✓	✓	✓	✓	✓
dc Pulse	✓	✓	✓	✓	✓	✓	✓	✓	
ac SSR	✓						✓	✓	
Analog	✓	✓				✓		✓	
Alarms	✓	✓	✓	✓		✓	✓	✓	✓
Control Algorithms									
On-Off	✓	✓	✓	✓	✓	✓	✓	✓	✓
On-Off (w/adj. Deadband)	✓	✓	✓	✓	✓	✓	✓	✓	
Proportional	✓	✓	✓	✓	✓	✓	✓	✓	✓
PID	✓	✓	✓	✓	✓	✓	✓	✓	✓
Autotune PID	✓	✓	✓	✓	✓	✓	✓	✓	
Manual Control Mode	✓	✓	✓		✓	✓			
Ramp to Setpoint	✓	✓		✓	✓			✓	
Ramp/Soak No. of Segments	2	64		2	16			2	
Number of Profiles	1	8			1			1	
Low Voltage Power	✓		✓	✓	✓	✓	✓	✓	
Other Options	Fuzzy logic								
RS-232/RS-485	✓	✓		✓	✓	✓		✓	
Software Packages	✓	✓		✓	✓	✓		✓	
Recorder/Retransmission	✓							✓	
Approvals: CE, UL, CSA, FM									



1/6 DIN									
Series No.	6100	CN1A	CN9000A	CN350/360/370	CN9300/9400	CN96000	CN78000	CN77000	CN76000
Base Price	£97	£113	£133	£93/107/133	£133	£147	£127	£147	£274
Page No.	P-28	P-29	P-30	P-31	P-33	P-33	P-35	P-37	P-41
Input Specifications									
Number of Inputs	1	1	1	1	1	1	1	1	1
Thermocouple Types	J, K, S	J, K, T, N	J, K, T, E, R, S, B, N, L	J,K,R,S	J, K, T, E, R, S, B, N, L	J, K, T, E, R, S, B, N, L	K,J,T,E,N R,S,B,L,C	J, K, T, E, R, S, B, N, C, L	K,J,T,E,N R,S,B,L,C
RTD	2-Wire 100 Ω	2-, 3-Wire 100 Ω	2-, 3-Wire 100 Ω	2-, 3-Wire 100 Ω	2-Wire 100 Ω	2-Wire 100 Ω	2-, 3- Wire 100, 120, 1000Ω Nickel	2-, 3-, 4-Wire 100, 500, 1000 Ω	2-, 3- Wire 100, 120 Ω Nickel
Process Input			✓		✓	✓	✓	✓	✓
Other Input Types									
Analog Remote Setpoint									
Display Specifications									
NEMA Faceplate					4X	4X	4X	4X	4X
Dual Display: PV & SV				✓	CN9400		✓	✓	✓
°C/°F Switchable		✓	✓		✓	✓	✓	✓	✓
Output and Alarm Indicators	✓	✓	✓	✓	✓	✓	✓	✓	✓
Output Specifications									
Number of Control Outputs	1	1	2	1	2	3	2	2	2
Prog. for Reverse/Direct		✓	✓		✓	✓	✓	✓	✓
Outputs Types Convertible			✓						✓
Mechanical Relay	✓	✓	✓	✓	✓	✓	✓	✓	✓
dc Pulse			✓	✓	✓	✓	✓	✓	✓
ac SSR			✓	✓	✓	✓	✓	✓	✓
Analog			✓				✓	✓	✓
Alarms		✓	✓		✓	✓	✓	✓	✓
Control Algorithms									
On-Off	✓	✓	✓	✓	✓	✓	✓	✓	✓
On-Off (w/adj. Deadband)		✓	✓		✓	✓	✓	✓	✓
Proportional	✓		✓	✓	✓	✓	✓	✓	✓
PID			✓		✓	✓	✓	✓	✓
Autotune PID			✓		✓	✓	✓	✓	✓
Manual Control Mode			✓				✓	✓	✓
Ramp to Setpoint					✓	✓	✓	✓	✓
Ramp/Soak No. of Segments					2	126		2	
Number of Profiles						31			
Low Voltage Power		✓	✓	✓	✓	✓			
Other Options									
RS-232/RS-485					✓	✓	✓	✓	✓
Software Packages					✓	✓	✓		
Recorder/Retransmission							✓	✓	✓
Approvals: CE, UL, CSA, FM	CE	CE	UL ^{US} CE		UL ^{US} CE cUL	UL ^{US} CE cUL	UL CE	cUL ^{US} EMC SERVICES CE	cUL ^{US} CE



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Series No.	1/16 DIN							1/8 DIN	
	CN8500	CN8201	CN7800	CN63100	CN63200/63400	CN63300	CN6201	CNi8	CN1000
Base Price	£133	£177	£66	£132	£84	£132	£191	£208	£265
Page No.	P-43	P-45	P-49	P-50	P-53	P-56	P-59	P-49	P-61
Input Specifications									
Number of Inputs	1	1	1	1	1	1	1	1	1
Thermocouple Types	K, J, T, N, R, S	J, K, T, E, R, S, B, N, C, PL-11	K, J, T, E, W, R, S, B, L, U	K, J, T, E, R, S, B, N	K, J, T, E, R, S, B, N		K, J, T, E, N, R, S, B, L, U, Platine II	J, K, T, E, R, S, B, N, C, L	J, K, T, L
RTD	2-, 3- Wire 100 Ω	2-, 3- Wire 100 Ω	2-, 3- Wire 100 Ω	2-, 3- Wire 100 Ω	2-, 3- Wire 100, 120 Ω Nickel		2-, 3- Wire 100 Ω	2-, 3-, 4- Wire 100, 500, 1000 Ω	2-, 3-, 4- Wire 100 Ω
Process Input	✓	✓	✓		✓	✓	✓	✓	
Other Input Types									
Analog Remote Setpoint	✓			✓		✓			
Display Specifications									
NEMA Faceplate	4X	4X		4X	4X	4X		4X	
Dual Display: PV & SV	✓	✓	✓	✓	✓	✓	✓	✓	
°C/°F Switchable	✓	✓	✓	✓	✓		✓	✓	✓
Output and Alarm Indicators	✓	✓	✓	✓	✓	✓	✓	✓	✓
Output Specifications									
Number of Control Outputs	2	2	2	2	2	2	1	2	2
Prog. for Reverse/Direct		✓	✓	✓	✓	✓	✓	✓	✓
Outputs Types Convertible				✓	✓	✓			
Mechanical Relay	✓	✓	✓	✓	✓	✓	✓	✓	✓
dc Pulse	✓	✓	✓	✓	✓	✓	✓	✓	
ac SSR	✓	✓						✓	
Analog	✓	✓	✓	✓	✓	✓	✓	✓	✓
Alarms	✓	✓	✓	✓	✓	✓	✓	✓	✓
Control Algorithms									
On-Off	✓	✓	✓	✓	✓	✓	✓	✓	✓
On-Off (w/adj. Deadband)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Proportional	✓	✓	✓	✓	✓	✓	✓	✓	✓
PID	✓	✓	✓	✓	✓	✓	✓	✓	✓
Autotune PID	✓	✓	✓	✓	✓	✓	✓	✓	
Manual Control Mode	✓	✓	✓	✓	✓	✓	✓		
Ramp to Setpoint	✓	✓	✓				✓	✓	
Ramp/Soak: No. of Segments		8	64				16	2	
Number of Profiles		1	8				1	1	
Low Voltage Power		✓		✓	✓	✓	✓	✓	✓
Other Options									
RS-232/RS-485	✓	✓	✓	✓		✓	✓	✓	
Software Packages	✓	✓	✓	✓		✓		✓	
Recorder/Retransmission		✓		✓	✓	✓	✓	✓	✓
Approvals: CE, UL, CSA, FM	UL CE	cUL us CE	UL CE	cRU us CE	cRU us CE	cRU us CE	UL CE	EMC SERVICES UL CE	cUL us UL CE



	½ DIN					¼ DIN			
Series No.	CN1501	CN1504/1507	CN8541	CN8551	CN8240	4001A/4201A	CN2110	CN8260	CN8561
Base Price	£147	£333	£205	£208	£227	£273	£184	£269	£245
Page No.	P-62	P-85	P-63	P-63	P-66	P-69/70	P-71	P-66	P-63
Input Specifications									
Number of Inputs	1	7	1	1	1	1	1	1	1
Thermocouple Types	J, K, T, E, R, S, B	J, K, T, E, R, S, B	K, J, T, N, R, S	K, J, T, N, R, S, B, C	J, K, T, E, N, R, S,	J, K	J, K, B, C	J, K, T, E, N, R, S,	K, J, T, N, R, S
RTD	2-Wire 100 Ω	2-Wire 100 Ω	2-,3- Wire 100 Ω	2-,3- Wire 100 Ω	3-Wire 100 Ω	3-Wire 100 Ω	2-, 3-Wire 100 Ω	3-Wire 100 Ω	2-,3- Wire 100 Ω
Process Input	✓	✓	✓	✓	✓			✓	✓
Other Input Types	Thermistor	Thermistor			Platinel II NNM			Platinel II NNM	
Analog Remote Setpoint			✓	✓	✓			✓	✓
Display Specifications									
NEMA Faceplate			4X	4X	4X		4X	4X	4X
Dual Display: PV & SV	✓	✓	✓	✓	✓		✓	✓	✓
°C/°F Switchable	✓		✓	✓	✓		✓	✓	✓
Output and Alarm Indicators			✓	✓	✓		✓	✓	✓
Output Specifications									
Number of Control Outputs	1	7	2	2	2	2	1	2	2
Prog. for Reverse/Direct	✓	✓			✓			✓	
Outputs Types Convertible					✓		✓	✓	
Mechanical Relay	✓		✓	✓	✓	✓	✓	✓	✓
dc Pulse	✓	✓	✓	✓	✓		✓	✓	✓
ac SSR			✓	✓	✓		✓	✓	✓
Analog			✓	✓	✓			✓	✓
Alarms	✓		✓	✓	✓		✓	✓	✓
Control Algorithms									
On-Off	✓	✓	✓	✓	✓	✓	✓	✓	✓
On-Off (w/adj. Deadband)	✓	✓	✓	✓	✓		✓	✓	✓
Proportional		✓	✓	✓	✓	✓	✓	✓	✓
PID		✓	✓	✓	✓		PI	✓	✓
Autotune PID			✓	✓	✓			✓	✓
Manual Control Mode	✓	✓	✓	✓	✓			✓	✓
Ramp to Setpoint		✓	✓	✓	✓			✓	✓
Ramp/Soak: No. of Segments	10	7			8			8	
Number of Profiles	5	1			1			1	
Low Voltage Power	✓	✓			✓			✓	
Other Options									
RS-232/RS-485	✓		✓	✓	✓			✓	✓
Software Packages			✓	✓	✓			✓	✓
Recorder/Retransmission			✓	✓	✓			✓	✓
Approvals: CE, UL, CSA, FM			UL CE	UL CE	cUL US CE	UL	cUL US	cUL US CE	UL CE

Selection Guide



	¼ DIN						Wall-Mount Controllers		
Series No.	CN72000	CN3251	CN2120	CN3000	CN616	CN8100	CN1511	CN1514	CN1517
Base Price	£243	£275	£585	£1,520	£415	£211	£231	£399	£535
Page No.	P-73	P-75	P-79	P-87	P-89	P-113	P-91	P-93	P-93
Input Specifications									
Number of Inputs	1	1	1	2	6	1	1	4	7
Thermocouple Types	K, J, T, E, N R, S, B, L, C	J, K, T, E, R, S, B	J, K, T, E, R, S, B, N, C, D, L, U	K, J, T, E, N R, S, B, G, C, D Platinel II	J, K, T, E, R, S, B, C	J, K	K, J, T, E R, S, B	K, J, T, E R, S, B	K, J, T, E R, S, B
RTD	2-, 3- Wire 100, 120, 1000 Ω, Nickel	2-, 3- Wire 100 Ω	2-, 3- Wire 100 Ω	2-, 3- Wire 100 Ω			2- Wire 100 Ω	2- Wire 100 Ω	2- Wire 100 Ω
Process Input	✓	✓	✓	✓			✓	✓	✓
Other Input Types							Thermistor	Thermistor	Thermistor
Analog Remote Setpoint	✓	✓	✓	✓					
Display Specifications									
NEMA Faceplate	4X	4X	4X	4X		4X			
Dual Display: PV & SV	✓	✓	✓	✓			✓	✓	✓
°C/°F Switchable	✓	✓	✓	✓	✓	✓	✓	✓	✓
Output and Alarm Indicators	✓	✓	✓	✓	✓	✓	✓	✓	✓
Output Specifications									
Number of Control Outputs	2	2	2	4	6	2	6	5	6
Prog. for Reverse/Direct	✓	✓	✓	✓			✓	✓	✓
Outputs Types Convertible	✓	✓	✓	✓					
Mechanical Relay	✓	✓	✓	✓		✓	✓		✓
dc Pulse	✓	✓	✓	✓	✓	✓	✓	✓	✓
ac SSR	✓	✓	✓	✓		✓			
Analog	✓	✓	✓	✓					
Alarms	✓	✓	✓	✓	✓	✓	✓	✓	✓
Control Algorithms									
On-Off	✓	✓	✓	✓		✓	✓	✓	✓
On-Off (w/adj. Deadband)	✓	✓	✓	✓		✓	✓	✓	✓
Proportional	✓	✓	✓	✓		✓	✓	✓	✓
PID	✓	✓	✓	✓	✓	✓	✓	✓	✓
Autotune PID	✓	✓	✓	✓	✓	✓			
Manual Control Mode	✓	✓	✓	✓			✓	✓	✓
Ramp to Setpoint	✓	✓	✓	✓	✓		✓	✓	✓
Ramp/Soak: No. of Segments	16	16	200	99	20		10	7	7
Number of Profiles	1	1	99	99	1		5	1	1
Low Voltage Power		✓	✓				✓	✓	✓
Other Options	Fuzzy logic								
RS-232/RS-485		✓	RS-485		RS-232				
Software Packages		✓	✓		✓				
Recorder/Retransmission	✓	✓	✓	✓					
Approvals:	UL	UL US	UL US	CE	FM UL US				CSA
CE, UL, CSA, FM	CE	UL US	CE	CE	CE	CE			CSA

Limit Controller Selection Guide



Series No.	CN3261-JF	CN355/375	CN3271-R1	CN7400	CN63500	CN6221	CN8121	CN3101
Base Price	£97	£93	£134	£135	£153	£131	£224	£275
Page No.	P-105	P-106	P-107	P-108	P-109	P-111	P-113	P-115
Input Specifications								
Number of Inputs	1	1	1	1	1	1	1	1
Thermocouple Types	J,K	K,J,R,S	K,J,T,E,N R,S,B,L,U Platinel II	K,J,T,E,N R,S,B,L,C	K,J,T,E R,S,B,N	K,J,T,E,N R,S,B,L,U	J	J, K, T, E, R, S, B
RTD	2- Wire 100 Ω	2- Wire 100 Ω	2-,3- Wire 100 Ω 1000 Ω Nickel	2-,3- Wire 100, 120,	2-,3- Wire 100 Ω	2-,3- Wire 100 Ω		2-, 3-Wire 100 Ω
Process Input Types			✓	✓		✓		✓
Display Specifications								
NEMA Faceplate			4X		4X		4X	4X
Dual Display: PV & SV		✓	✓	✓	✓	✓		✓
°C/°F Switchable			✓	✓	✓	✓	✓	✓
Output and Alarm Indicators		✓	✓		✓	✓	✓	✓
Output Specifications								
Number of Control Outputs	1	1	2	1	1	1	1	1
Mechanical Relay	✓	✓	✓	✓	✓	✓	✓	✓
Alarms	✓		✓		✓	✓		✓
Remote Reset			✓		✓	✓		
Low Voltage Power	✓		✓		✓			✓
Other Options								
RS232/RS485						✓		✓
Software Packages						✓		✓
Recorder/Retransmission				✓				
Approvals: CE, UL, CSA, FM	FM UL CSA US		UL US CE FM APPROVED	UL CE FM APPROVED	UL US CE	UL CE FM APPROVED	UL US CE FM APPROVED	UL US CE FM APPROVED

