

PID Controllers
















1-1



Single Loop

Multi Loop

Indicator

Software

Single Loop	2100		2200			2400			3200				3500		RFS	
Features																
Panel size (DIN)	1/32	1/16	1/16 DIN rail		1/8	1/4	1/16	1/8	1/4	1/16	1/8	1/8	1/4	1/8	1/4	DIN rail
IP Rating	IP65		IP65			IP65			IP65, Nema 4X				IP65, Nema 4X		IP20	
Display Type	1 x 4 dig LED		2 x 4 dig LED			2 x 4 dig LED			Main: 4 digits Lower: 5 character starburst (3216/08/04) 9 character starburst (32h8)				Main PV: 5 digit plus 4 line alphanumeric		Remote	
Supply Voltage	24V dc/ac 85-264V ac		85-264V ac			24V dc/ac 85-264V ac			24V dc/ac 85-264V ac				24V dc/ac, 85-264V ac		24V dc/ac	
Input Type	TC, RTD, mV, mA, V		TC, RTD, mV, mA, Volts			TC, RTD, mV, mA, Volts			TC, RTD, mV, mA, CT				TC, RTD, mV, mA, Volts		TC, RTD, mV, mA, CT	
PV Accuracy	<0.25%		<0.25%			<0.2%			<0.25%				<0.1%		±0.2%	
Control Types	On/Off. PID		On/Off. PID, VP			On/Off. PID, VP			On/Off. PID, VP				On/Off. PID, VP		On/Off. PID	
SP Programmer	none		none			20 x 16 segments			4 Ramp + 4 Dwell				50 Progs, 500 Segs max		none	
Analogue IO	In: 1 Out: 0		In: 1 Out: 1			In: 2 Out: 3			In: 2 Out: 3				In: 5 Out: 6		In: 1 Out: 0	
Digital IO	In: 1 Out: 2		In: 3 Out: 4			In: 11 Out: 11			In: 3 Out: 4				In: 40 Out: 41		In: 2 Out: 4	
Comms	none		Modbus, DeviceNet			Modbus, DeviceNet, Profibus			Modbus				Modbus, DeviceNet, Profibus, Ethernet		Modbus	
Alarms High	●		●			●			●				●		●	
Low	●		●			●			●				●		●	
Deviation	●		●			●			●				●		●	
Sensor Break	●		●			●			●				●		●	
Event	none		●			●			●				●		none	
Heater Fail	none		●			●			●				●		●	
PC Configuration	List based		List based			List based			Wizard				Graphical Wiring		Wizard	
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Coding page	1-39		1-40			1-41		1-42	1-44				1-51		1-46	

Multi Loop	3500		2604	2704	Mini8™ Controller	2500
Features						
Panel size (DIN)	1/8	1/4	1/4		DIN rail	DIN rail
IP Rating	IP65, Nema 4X		IP65		IP20	IP20
Display Type	Main PV: 5 digit plus 4 line alphanumeric		2 x 5 dig LED + 2 line text		Dot Matrix	Remote
Supply Voltage	24V dc/ac, 85-264V ac		24V dc/ac, 85-264V ac		24V dc	24V dc
Input Type	TC, RTD, mV, mA, Volts		TC, RTD, mV, mA, Volts		TC, mV, RTD, mA, CT	TC, RTD, mV, mA, Volts
PV Accuracy	<0.1%		<0.1%		<0.1%	<0.2%
Control Types	On/Off, PID, VP		On/Off, PID, VP		On/Off, PID	On/Off, PID, VP
Control Loops	2		3		16	8
Control Algorithms	Single		Single, Ratio, Cascade, Override		Single	Single, Ratio, Cascade, Override
Special Features	Carbon Potential, Humidity, Melt Pressure		Melt Pressure, Carbon Potential, Humidity		Humidity	Carbon Potential, Humidity
SP Programmer	50 Progs, 500 Segs max		50 Progs, 500 Segs max		60 Progs, 600 Segs max	8 Progs, 16 segments each
Analogue IP/OP	In: 5 Out: 6		In: 8 Out: 8		In: 32 Out: 8	In: 64 Out: 32
Digital IP/OP	In: 40 Out: 41		In: 44 Out: 43		In: 34 Out: 32	In: 128 Out: 64
Digital Comms	Modbus, DeviceNet, Profibus, Ethernet		Modbus, DeviceNet, Profibus		Modbus, DeviceNet, Profibus, Ethernet	Modbus, DeviceNet, Profibus, Ethernet
Maths Equation	24 Calculations		24 Calculations		32 Calculations	24 Calculations
Combinational Logic	24 Operations		32 Operations		24 Operations	32 Operations
Timers/Counters/Totals	4 / 2 / 2		4 / 0 / 4		4 / 2 / 2	8 / 8 / 8
Real Time Clock	Day and Time		Day and Time		Day and Time	none
Alarms High	●		●		●	●
Low	●		●		●	●
Deviation	●		●		●	●
Rate	●		●		●	●
Sensor Break	●		none		●	none
Event	●		●		●	●
PC Configuration	Graphical Wiring		Graphical Wiring		Graphical Wiring	List based
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