

Partlow DIN Controllers



- Dual setpoints with optional remote selection
- Plug-in output modules
- Customizable operator menus
- Process and loop alarms
- Full PID or ON/OFF control
- Heat/Cool operation (with dual outputs)
- Selectable pre-tune, self-tune, manual tune



1160+

SPECIFICATIONS

Inputs:	T/Cs: J, K, C, R, S, T, B, L, N, Pt 20% Rh vs. Pt40% Rh RTD: 3-wire Pt100, <50Ω per lead (balanced) DC (scalable -1999 to +9999): 0-5, 1-5, 0-10 or 2-10VDC; 0-50mV, 10-50mV; 0-20mA, 4-20mA
Accuracy:	±0.1% of input range ±1 digit (T/C CJC better than 1°C)
Input Sample Rate:	4 per second; 14 bit resolution
Impedance:	>10MΩ for T/C and mV ranges, 47kΩ for V ranges, 5Ω for mA ranges
Outputs:	Relay: SPDT, 240VAC@2A resistive SSR Driver: >10VDC nominal into 500Ω min. DC Linear: 0-20, 4-20mA into 500Ω max.; 0-10, 1-5, 2-10, 0-5V into 500Ω min. Triac: 0.01-1A AC, 20-280Vrms, 47-63Hz
Sensor Break Detect:	<2 seconds
Communications:	2-wire, RS-485, Modbus or ASCII
Operating Temperature:	32-131°F (0-55°C), <95% RH non-condensing
Supply Voltage:	100-240V, 50/60Hz or 20-48VAC / 22-65 VDC
Protection:	IP66, NEMA 4X (front panel)

ORDERING INFORMATION

To Order—Insert Number Code for Each Letter to Select Catalog Number.
Order Example: PA/1160114300

A	B	C	D	E	F
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A	Basic Unit		
PA/1160	1160+ PID Controller (1/16 DIN)		
PA/1400	1400+ PID Controller (1/4 DIN)		
PA/1800	1800+ PID Controller (1/8 DIN)		
B-C-D	Option Slot 1	Option Slot 2	Option Slot 3
0	0	0	None
1	1	1	Relay output
2	2	2	DC drive output for SSR
3	3	3	Linear DC output
-	4	4	24V Transmitter power supply*
8	8	8	Triac output*
E	Option Slot A		
0	None		
1	RS-485 serial comm		
2	Green upper display		
3	RS-485 & green upper display		
4	Green lower display		
5	RS-485 & green lower display		
6	Green upper & lower display		
7	RS-485 & two green displays		
8	Digital input		
9	Digital input & green upper display		
A	Digital input & green lower display		
B	Digital input & two green displays		
C	Basic Remote Setpoint Input (RSP)		
D	Basic RSP & green upper display		
E	Basic RSP & green upper display		
F	Basic RSP & two green displays		
F	Power Supply		
00	100-240VAC		
02	24-48V AC/DC		

*max. one transmitter supply, two triac outputs per unit

Partlow Limit Controllers

- 1/16, 1/8 & 1/4 DIN Sizes
- Dual 4 digit display
- User selectable input type
- Up to three outputs
- 3 year warranty



1801+

SPECIFICATIONS

Input:	Thermocouple J, K, C, R, S, T, B, L, N 3 wire 100 ohm Pt RTD DC linear V (scalable -1999 to +9999) DC linear mA (0-20 or 4-20) DC linear mV (0-50 or 10-50)
Output:	Relay SPDT 2A, 240VAC resistive SSR drive >10VDC into 500Ω min Triac 0.01-1A, 20-280VAC
Output Function:	Limit, alarm (process, deviation/band)
Control:	High/low limit
Operating Temperature:	0-55°C, 20-95% RH
Protection:	IP66, NEMA 4X front; IP20 behind panel

ORDERING INFORMATION

To Order—Insert Number Code for Each Letter to Select Catalog Number.

Order Example: PA/1161 010602

A	B	C	D	E	F
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A	Basic Unit	
PA/1161	1/16 DIN Limit Controller	
PA/1401	1/4 DIN Limit Controller	
PA/1801	1/8 DIN Limit Controller	
B	Option Slot 1	
0	Relay Output	
C	Option Slot 2	
0	None	
1	Relay Output	
2	DC drive output for SSR	
3	Linear DC output	
4	24V Transmitter power supply*	
8	Triac output	
D	Option Slot 3	
0	None	
1	Relay Output	
2	DC drive output for SSR	
3	Linear DC output	
4	24V Transmitter power supply*	
8	Triac output	
E	Option Slot A	
0	None	
1	RS-485 serial comm	
2	Green upper display	
3	RS-485 & green upper display	
4	Green lower display	
5	RS-485 & green lower display	
6	Green upper & lower display	
7	RS-485 & two green display	
8	Digital input	
9	Digital input & green upper display	
A	Digital input & green lower display	
B	Digital input & two green displays	
F	Power Supply	
00	100-240VAC	
02	24-48V AC/DC	

*One transmitter supply per unit