



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Temperature PID Controllers

Fuzzy Logic PID, Auto Tuning, and Soft Start features combine for uncompromising, state-of-the-art control

Extech controllers now offer Fuzzy Logic enhanced PID and a Soft-Start feature that protects heaters from cold-starts. PID plus Fuzzy Logic tackles even the most demanding applications, eliminating over-shoot, unwanted process fluctuations, and drift. The Soft Start feature is ideally suited for processes, such as those employed in the Thermo-Plastics industry, where careful, exact, and slow heating of product is required.

Features:

- Dual 4-digit LED displays for process and setpoint values
- 1/16 DIN (48VFL) and 1/4 DIN (96VFL) model dimensions available
- Easy programming & navigation with user-friendly menus and tactile keypad
- Fuzzy Logic PID offers intuitive control simulating human control logic
- Manual mode allows the user to override automatic control and drive the controller output higher or lower with the touch of a button
- One-touch Auto Tuning for quick setup and stable, precise control
- Two 'Latching' Alarm relays standard with 8 Alarm modes plus advanced Timer modes
- Single stage Ramp and Soak program with Ramp-to-Setpoint Limit that can be combined with the Soft Start feature for critical process demands
- Accepts thermocouple and RTD inputs
- Select desired temperature display units (°F or °C) from setup menu
- Select thermocouple input type (9 selections) or RTD input (2 selections) from the display menu without the need for hardware modification
- Complete with mounting bracket hardware and screw terminals for easy wiring



Specifications		
Thermocouple Inputs	Type K	-58 to 2498°F (-50 to 1370°C)
	Type J	-58 to 1832°F (-50 to 1000°C)
	Type B	32 to 3272°F (0 to 1800°C)
	Type T	-454 to 752°F (-270 to 400°C)
	Type E	-58 to 1382°F (-50 to 750°C)
	Type R or S	32 to 3182°F (0 to 1750°C)
	Type N	-58 to 2372°F (-50 to 1300°C)
	Type C	-58 to 3272°F (-50 to 1800°C)
	PT100Ω RTD (DIN)	-328 to 1652°F (-200 to 850°C)
	PT100Ω RTD (JIS)	-328 to 1202°F (-200 to 650°C)
Control/Alarm Relay	5 Amp @ 110V, SPST (resistive load)	
DC Current Output	4-20mA (resistive); Impedance < 600 ohms	
Accuracy	Thermocouple: ±1.8°F (1°C); RTD: ±0.36°F (0.2°C)	
Sampling Time	Four (4) samples per second	
LED Display	Two 4-digit displays for Process Value, Setpoint, and programming modes	
LED Status	Alarm and Control output status	
Control Modes	Fuzzy Logic enhanced three-term PID with Auto Tune <ul style="list-style-type: none"> • Proportional Band 0 to 300.0% • Integral time 0 to 3600 seconds • Derivative time 0 to 900 seconds • Hysteresis 0.0 to 200.0 or 0.0 to 2000 • Cycle time 1 to 100 seconds 	
Front Panel	Lexan construction, Drip/Dust proof; IR rating: IEC IP63	
Power Supply	90 to 264 VAC; 50/60 Hz (< 5VA power consumption)	

Ordering Information:

- 48VFL11**1/16 DIN Temperature PID Controller with one relay output
48VFL131/16 DIN Temperature PID Controller with 4-20mA output
96VFL111/4 DIN Temperature PID Controller with two relay outputs
96VFL131/4 DIN Temperature PID Controller with 4-20mA output

