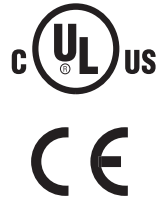
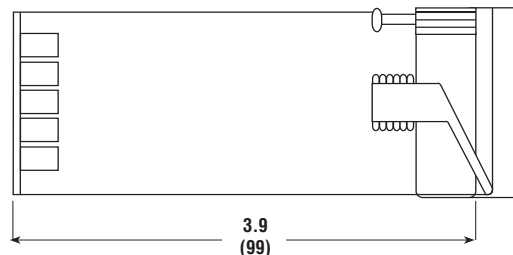


1601 1/16 DIN Temperature Controller

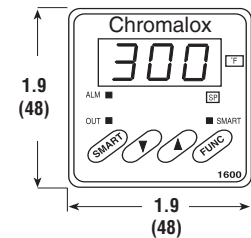
- 3-Digit Display
- SMART Self-Tuning with Fuzzy Logic
- Heat or Cool PID Control
- NEMA 4X Faceplate
- Soft Start Power Limiting on Power-Up
- Universal Inputs TC, RTD
- Switching Power Supply from 100-240 Vac, 50/60 Hz or 24 Vac/Vdc



Dimensions



Side View



Front View

All Dimensions in Inches (mm)

Description

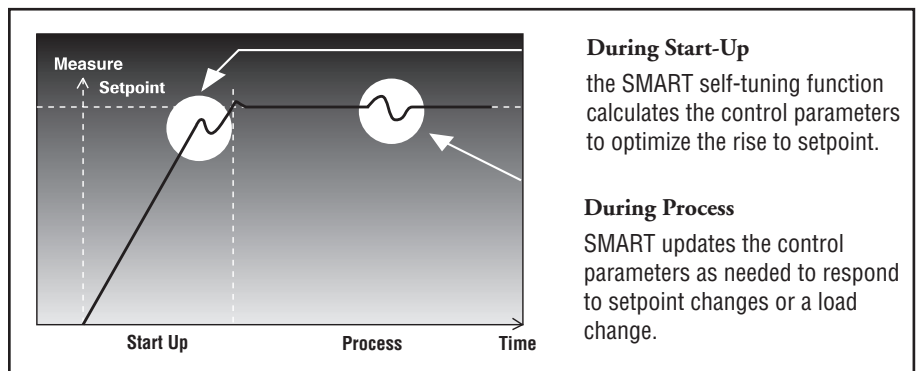
The **1601** Controller is an economical single display 1/16 DIN with the control features of a sophisticated Auto-tuning PID controller. All controllers come with a flexible Alarm relay output.

Features of the 1601:

- **Soft Start** limits the output on startup to minimize overshoot and distribute heat more evenly in the product.
- Smart Tuning during start up and in process
- Plug in design

Applications

- Rubber production, polymerization and synthetic fiber plants
- Packaging and packing equipment
- Fermentation equipment, reactors for chemical and pharmaceutical industries
- Food industries
- Environmental chambers and refrigeration



SINGLE CHANNEL

Controls

1601 1/16 DIN Temperature Controller (*cont'd.*)

Specifications

Control Modes	Field Selectable On/Off PID SMART (Autotune)
Outputs	One (1) Heat or Cool Output
Output #1	Relay NO. SPDT contact, 3 Amps at 250 Vac (resistive) SSR Drive Transistor output of 24 Vdc max at 1mA, 14 Vdc ± 20% at 20mA
Output #2	Alarm Output Relay NO. SPST contact, 2 Amps at 250 Vac (resistive)
Alarm Features	Field Selectable Process, Deviation, Band
Functions	High/Low for Process Alarm Inside/Outside for Band Alarm Normally Energized/Normally De-energized Inhibit on Power-Up and Setpoint Changes Latching/Non-latching (Manual/Automatic Reset)
Types	
Input Specifications	
Sensor Type	Range* °F °C
Thermocouple	J 0-999 0-800
	K 0-999 0-999
	L 0-999 0-999
	N 0-999 0-999
	T 0-752 0-400
RTD 100 PLT	-199 to +999 -199 to +500 -19.9 to +99.9
*Field Programmable for °C or °F	
Instrument Power	100-240 Vac, +10%, -15%, 50-60 Hz, 24 Vac or Vdc
Operating Environment	30-120°F (0-50°C) ambient with less than 85% relative humidity

Ordering Information

Complete the Model Number using the Matrix provided.

In Stock:

Model	PCN
1601-11030	306464
1601-61030	306472

Model	1/16 DIN Temperature Controller					
1601	SMART Self-Tuning, 2 Outputs (Control/Alarm), 3-Digit Display, Field Selectable Universal Thermocouple or RTD Inputs, Programmable Alarms IEC 801-4 Noise Immunity, NEMA 4X Faceplate					
Code	Output 1 - Heat or Cool					
1	Relay, 3 Amps at 250 Vac (Resistive)					
6	SSR Drive, 14 Vdc at 20mA					
Code	Output 2 - Alarm					
1	Relay, 1 Amp at 250 Vac (Resistive Load)					
Code	0 Add to complete model number					
Code	Power Supply					
3	100-240 Vac					
5	24 Vac/Vdc					
Code	0 Add to complete model number					
1601 - 6 1 0 3 0	Typical Model Number					