



## 1604mA

### 1/16 DIN Temperature Controller

- 4-20 and 0-20 mA Linear Control Output or Process/Setpoint Retransmit
- SMART Self-Tuning with Fuzzy Logic
- Heat/Cool Control
- Universal Inputs: TC, RTD, Voltage and Current
- Two Independent Programmable Alarms
- Soft-Start Power Limiting on Power-Up
- Two Independent Setpoints Switched by Dry Contacts
- Three Year Warranty



#### Description

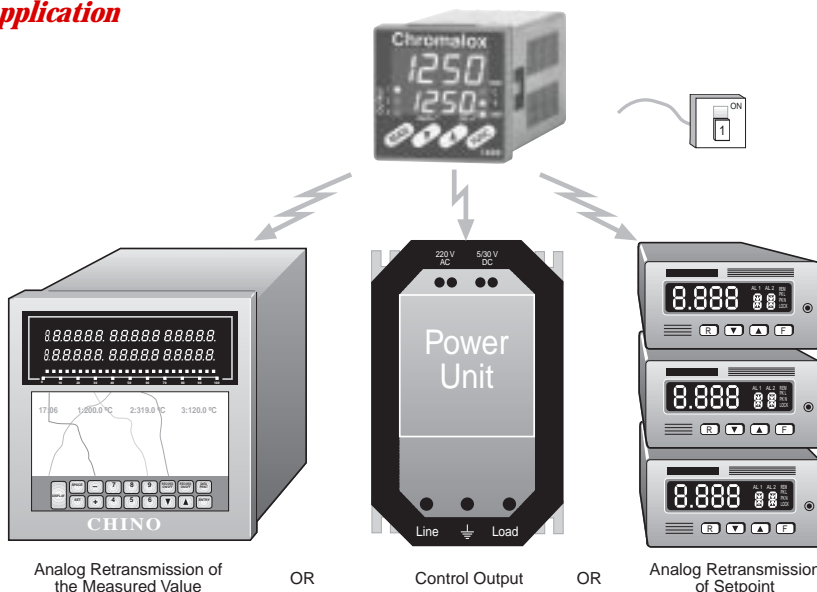
The 1604mA builds on all of the advanced hardware design and sophisticated electronic control features of the 1604. The primary control output, a programmable linear 0-20 or 4-20 mA signal, gives the 1604mA the added capability to retransmit the process value or setpoint to an external instrument or to drive a 4-20 mA input device.

#### Features

- The model 1604mA meets the application needs of operators with or without skills in temperature processes and PID control. The SMART self-tuning algorithm with fuzzy logic allows the controller to self-adjust automatically and rapidly to all process changes.
- Heat/cool control features include selection of cooling medium and overlap.

- Output "Turn Off" function disables the control output and removes power from the controller load, allowing the 1604mA to continue monitoring the process even when the load is off.
- Control parameters configuration by front keyboard.
- IP65 and NEMA 4X faceplate.
- 2 independent alarms programmable as Process Alarm, Band Alarm or Deviation Alarm with automatic or manual reset of the alarm condition.
- Alarm inhibit during start up or after setpoint change.
- Two independent ramps (up and down) for setpoint change.

#### Application

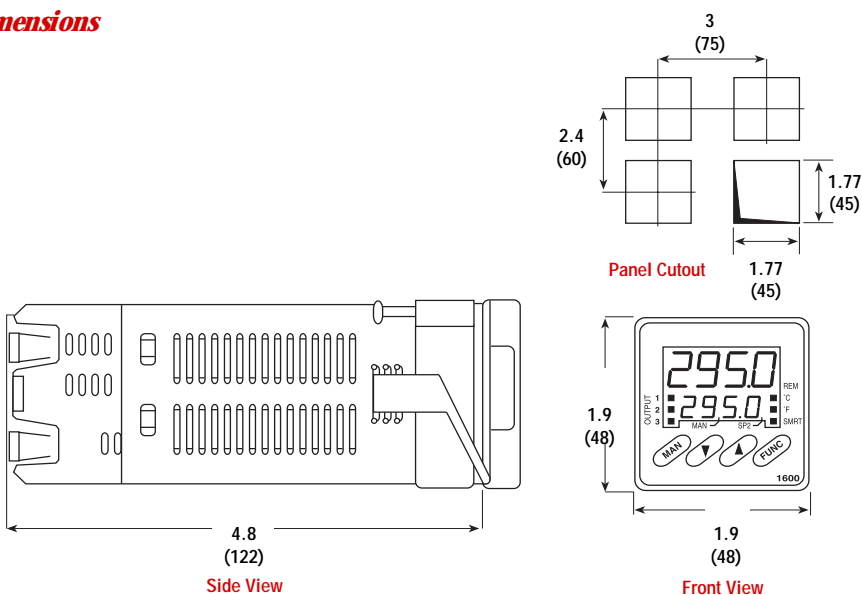


Single Channel  
Controllers

## 1604mA

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

#### Dimensions



All Dimensions in Inches (mm)

#### Ordering Information

Complete the Model Number using the Matrix provided.

#### In Stock:

Model	PCN
1604-71130	307491

Model	1/16 DIN Temperature Controller
1604mA	SMART Self-Tuning, 2 Outputs (Heat/Cool or Control/Alarm), Dual 4-Digit Display of Process and Setpoint, Field Selectable Universal Thermocouple, RTD, Voltage or Current Inputs, Auto-Manual Control, Programmable Alarms, 0.1 Degree Display Resolution, IEC 801-4 Noise Immunity, IP65 and NEMA 4X Splashproof Faceplate
Code	<b>Output 1 - Heat, Cool or Process/Setpoint Retransmit</b>
7	0-20 mA or 4-20 mA Linear Output (programmable), opto-isolated
Code	<b>Output 2 - Heat, Cool or Alarm</b>
1	Relay, 2 Amps at 240 Vac (Resistive Load)
Code	<b>Output 3 - Heat, Cool or Alarm</b>
1	Relay, 2 Amps at 250 Vac (Resistive Load)
Code	<b>Power Supply</b>
3	100/240 Vac
5	24 Vac/Vdc
Code	
0	Add to complete model number
1604mA -7	1 1 3 0 Typical Model Number