1605
1/16 DIN
Ramp/Soak Controller

C UL US
CE

• **One 4-Segment Ramp/Soak Program**

• **SMART Self-Tuning with Fuzzy Logic**

• **Ramp Tracking and Guaranteed Soak Functions**

• **IP65 and NEMA 4X Faceplate**

• **Universal Inputs: TC, RTD, Voltage and Current**

• **Two Independent Programmable Alarms**

• **Three Year Warranty**

Description

The 1605 Ramp/Soak Controller provides a sophisticated, programmable 4-segment ramp/soak profile (program) in a compact 1/16 DIN package. With its expansive memory and flexible programming capabilities, the 1605 can be cost-effectively applied to a wide range of applications requiring time and temperature profiling. Advanced ramp/soak features such as Guaranteed Soak and Ramp Tracking assure optimum performance. Outputs 2 and 3 can be programmed as "Event" output and "End of Cycle" indicators to further enhance ramp/soak operator capabilities.

Applications

• Food Processing and Commercial Ovens

• Sterilizers

• Furnaces

• Autoclaves

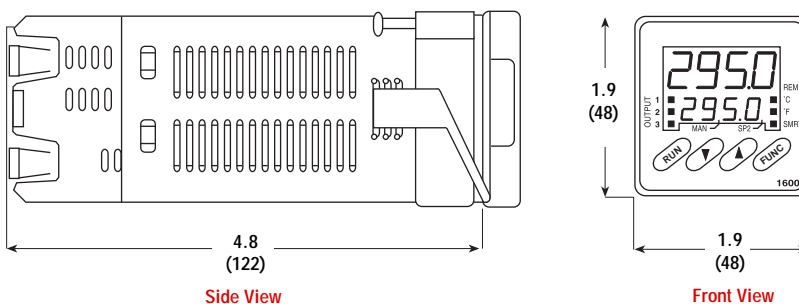• Environmental Chambers

• Goldsmith and Dentistry Ovens

Control Features

• Ramp tracking function to assure a correct ramp to setpoint execution.

• Guaranteed soak function to assure exact soak time once setpoint is reached.

• SMART self-tuning algorithm allows the controller to self-adjust automatically and rapidly to all process changes, load changes, setpoint changes and more. SMART control features include:

  • Start-up and continuous in-process tuning

  • Continuous self-tuning without artificial upset

• Proven maximum suppression of overshoot

• Two independent outputs programmable as alarms, or Event output and "End-of-Cycle" indicator.

• IP65 and NEMA 4X faceplate

• Up to 2 independent alarms programmable as Process Alarm, Band Alarm or Deviation Alarm with automatic or manual reset of the alarm condition.

• Logic input for program START actuation

• Programmable readout range -1999 to 3999

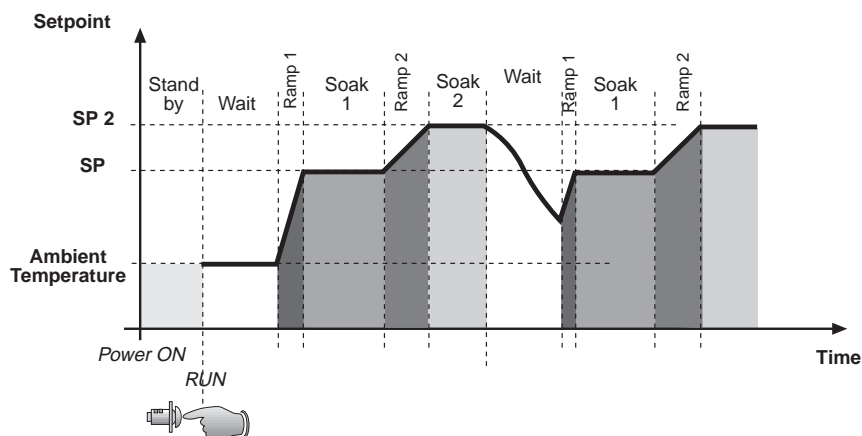• Alarm Inhibit during start up or after setpoint change.

• Auto/Manual control

Single Channel Controllers

1605
1/16 DIN Ramp/Soak Controller *(cont'd.)*

Dimensions

Side View

Front View

All Dimensions in Inches (mm)

Application

Ordering Information

Complete the Model Number using the Matrix provided.

In Stock:

Model	PCN
1605-11130	307504
1605-61130	307512

Model	1/16 DIN Ramp/Soak Temperature Controller					
1605	SMART Self-Tuning, 4 Segment Ramp/Soak, 3 Outputs, 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	Output 1 - Heat, Cool
1	Relay, 3 Amps at 240 Vac
6	SSR Drive, 14 Vdc at 20 mA

Code	Output 2 - Alarm or Event
1	Relay, 2 Amps at 240 Vac

Code	Output 3 - Alarm or End-of-Cycle Indicator
1	Relay, 2 Amps at 250 Vac

Code	Power Supply
3	100/240 Vac
5	24 Vac/Vdc

Code	
0	Add to complete model number

1605	-	1	1	1	3	0	Typical Model Number

Represented By: Ross & Pethtel
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Chromalox®