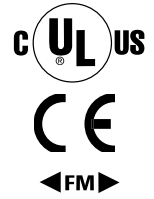


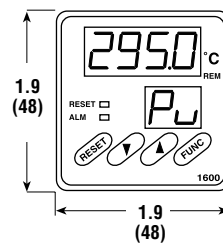
1600

1/16 DIN High/Low Limit Overtemperature Controller

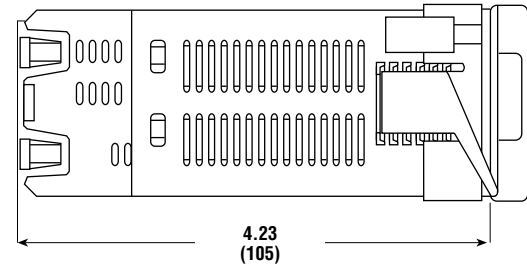
- High Limit, Low Limit or High and Low Limits
- Peak Temperature Detection
- Universal Sensor Inputs
- IP 65 and NEMA 4X Splashproof Faceplate
- Coded Security Levels
- Alarm Inhibit on Power-Up and Setpoint Change
- Three Year Warranty



Dimensions



Front View



Side View

All Dimensions in Inches (mm)

Description

The model 1600 High/Low Limit controller is designed to provide reliable protection of processes, process equipment and personnel. This is a UL listed Overtemperature (or Undertemperature) controller, and FM approved as a limit controller. Universal sensor inputs allow the 1600 to be applied to temperature, pressure and other processes. Versatile, easy to install and simple to operate, the 1600 provides all of the limit control functions and features of larger and more costly controllers, in a space-efficient 1/16 DIN package. With an IP65 and NEMA 4X rated faceplate, the controller is an excellent choice for washdown environments such as food processing plants.

Features

- Universal Inputs.
 - Sophisticated LED displays of process information such as shutdown duration in hours and minutes, and maximum or minimum process value measured during a shutdown.
 - One relay limit output and one optional alarm relay
- The 1600 Overtemperature Controller meets the standard FM plus has additional Features:
- Limit Set point can be High, Low or High and Low
 - Reset on front- pushbutton
 - Power-Up Programming Options, select from powering up in power down condition, always in alarm, or in the condition at power up.
 - Limit Acknowledge- Can acknowledge even though you are still in alarm condition (Output does not reset until condition cleared) or reset when not in alarm condition.
 - Alarm output 2. With "Silence" option: used for horn outputs. Output 2 can be reset before the condition resets.

SINGLE CHANNEL CONTROLLERS

1600

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

Specifications

Outputs

Output #1	Limit Output, Normally Energized, Latching High, Low or High and Low Relay	SPDT contact, 3 Amps at 250 Vac (resistive)
Output #2	One Alarm Output Relay	NO. SPST contact, 2 Amps at 250 Vac (resistive)

Output 2

Alarm Features

Functions	Field Selectable Process, Deviation, Band
Types	Normally Energized/Normally De-energized Inhibit on Power-Up and Setpoint Changes Latching/Non-latching

Input Specifications

Sensor Type		Range* °F	°C
Thermocouple	J	-150 to +1830	-100 to +1000
	K	-150 to +2500	-100 to +1370
	L	-150 to 1650	-100 to 900
	N	-150 to +2550	-100 to +1400
	R	-60 to 3200	-50 to 1760
	S	-60 to 3200	-50 to 1760
RTD	T	-330 to +750	-200 to +400
		-330 to +1570 -199.9 to +400.0	-200 to +850 -199.9 to +400.0
Current Voltage		0-20mA or 4-20mA dc 0-5, 1-5, 0-10, or 2-10Vdc, 0-60 or 12-60mVdc	} Range and decimal points programmable, -1999 to 4000

*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

In Stock:

Model	PCN
1600-10030	307475
1600-11030	307483
1600-11050	317745

Ordering Information

Complete the Model Number using the Matrix provided.

Model 1/16 DIN High/Low Limit

1600 2 Outputs (Limit /Alarm), 4-Digit Display, Field Selectable Universal Thermocouple, RTD, Current or Voltage Inputs, Programmable Alarm, IEC 801-4 Noise Immunity, IP65 and NEMA 4X Faceplate.

Code Limit Output #1

1 Relay 3 Amps at 250 Vac, Form C Contact

Code Output #2 - Alarm

0 None
1 Relay, 2 Amps at 250 Vac, Form A Contact

Code

0 Add to complete model number

Code Power Supply

3 100-240 Vac
5 24 Vac/dc

Code

0 Add to complete model number

1600 - 1 1 0 3 0 Typical Model Number