

THERMOSTAT CONTROLLER



INDUSTRY STANDARDS

cURus; File No. E164102

CE

FEATURES

- Mechanical thermostat for controlling filter fans and heaters
- Registers surrounding air and can switch inductive and resistive loads via snap-action contact
- Clips for vertically mounting on 35 mm DIN rail (EN 60715) An integrated resistor (RF) can be connected to improve the switch temperature difference

FINISH

- RAL7035 light gray
- Plastic housing UL94V-0

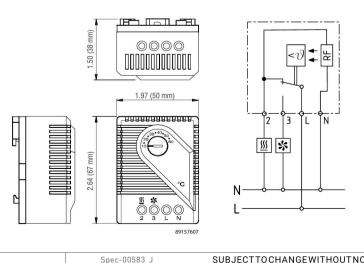
NOTES

- The contact system of the regulator is subjected to environmental influences and contact restistance may change which can lead to a voltage drop and/or self-heating of contacts If the Normally Closed contact is used, the switch temperature
- difference could be reduced by connecting terminal "N" (RF heating resistor). It causes thermal feedback which is subject to surrounding conditions and thus has to be determined for each individual application.
- Voltage only needs to be specified if the optional use of the RF resistor is desired

Performance Data Thermostat Controller

CATALOG NUMBERS	THERM16F	THERM26F	THERM16C	THERM26C
DESIGN DATA				
Control Range	40 to	140 F	5 to	60 C
Switching Differences:				
Bimetal controllers	Approximately 9 F (5K), tolerance -5.4/+3.6 F (-3/+2K)			
Contact			break contact-NC	
	Make contact-NO			
Switching Capacity:				
Minimum switching capacity		10	mA	
Maximum switching capacity, NC	10 A resistive / 4 A inductive @ AC 115V			
	10 A resistive / 4 A inductive @ AC 250V			
	DC 30 W			
Maximum switching capacity, NO	5 A resistive / 2 A inductive @ AC 115V			
	5 A resistive / 2 A inductive @ AC 250V			
			30 W	
Supply Voltage	115V	230V	115V	230V
Protection			20	
Sensor	Bimetal			
Power Connection	4-pole terminal, clamping torge 0.5 Nm maximum:			:
	solid/stranded wire, 14 AWG maximum (2.5 mm)*			
Ambient Temperature (°F / °C)	-4 to 176 F -20 to 80 C			
Storage Temperature (°F / °C)	-49 to 149 F -45 to 65 C		o 65 C	
UNIT CONSTRUCTION				
Temperature Display	Fahrenheit Celsius			
Unit Dimensions - H x W x D (in./mm)	2.64 x 1.97 x 1.50/67 x 50 x 38			
Weight (oz/g)	2.00/60			

*When connecting with stranded wires, wire end ferrules must be used



THERMAL MANAGEMENT 1

SUBJECTTOCHANGEWITHOUTNOTICE

NVENT.COM/HOFFMAN



DUAL THERMOSTAT





INDUSTRY STANDARDS

cURus; File No. E164102

CSA File No. 215952 CE

APPLICATION

Two thermostats in one, the Dual Thermostat independently controls equipment heating and cooling systems.

FEATURES

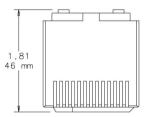
- Two thermostats; one normally closed (NC), red, and one normally . open (NO), blue, in one casing
- Wide adjustable temperature range (32 -140 F)
- Thermostatic bimetallic sensor element Connection: 4-pole terminal for AWG 14 max (2.5 mm²) Mounting clip for 35-mm DIN rail

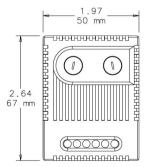
FINISH

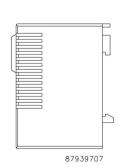
Light-gray plastic, UL94V-0

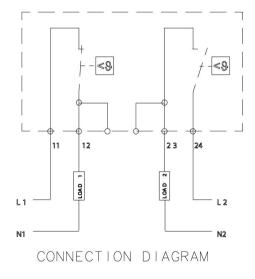
Performance Data Dual Thermostat CATALOG NUMBERS

CATALOG NUMBERS	
	ADLTEMP
ELECTRICAL DATA	
Switching Capacity (Normally Closed)	10 A resistive/2 A inductive @250 VAC, DC 30 W
Switching Capacity - Normally Open	5 A resistive/2 A inductive @250 VAC, DC 30 W
Setting Range - Normally Closed (°F/C°)	32/0 to 140/60
Setting Range - Normally Open (°F/C°)	32/0 to 140/60
UNIT CONSTRUCTION	
Unit Dimensions - H x W x D (in./mm)	2.64 x 1.97 x 1.81/67 x 50 x 46

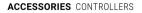












nVent HOFFMAN **ELECTRONIC HYGROTHERM**



APPLICATION

The Electronic Hygrotherm senses ambient temperature and relative air humidity and adjusts a connected device to maintain temperature and humidity set points.

FEATURES

- Temperature (32-140 F) and humidity (50%-90% RH) adjustment
- High switching capacity

- Optical function displays (LED) in each control Mounting clip for 35-mm DIN rail Change-over contact (relay) Connection: 5-pole terminal for AWG 14 max (2.5-mm square). Clamping torque .5 Nm (4.4 in-lbs) maximum.
- Plastic housing UL94V-0 Vertical mounting
- Operating voltage is AC 100-240 V with maximum switching capacity of 10 A resistive / 1.6 A inductive at AC 240 V

FINISH

Light-gray plastic UL94V-0

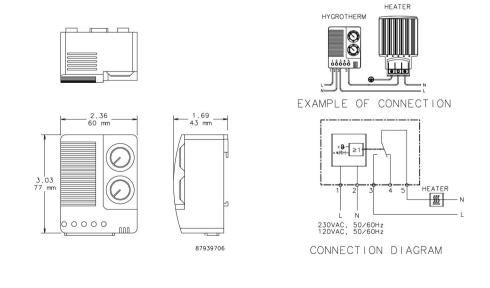
INDUSTRY STANDARDS

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cURus; File No.	E104102

CE

Performance Data Electronic Hygrotherm CATALOG NUMPER

	ATEMHUM
ELECTRICAL DATA	
Hysteresis	~ 3.6 F (2K) ± 1.8 F (1K) tolerance
Humidity Set Point (adjustable)	50-90% RH
Temperature Set Point (adjustable) (°F/°C)	32/0 to 140/60
Operating Temperature Range (°F/°C)	-40 to 140/-40 to 60
Storage Temperature (°F/°C)	-40 to 140/-40 to 60
CONTACTS	
3 and 5	
Close at	humidity rise or temperature drop
Open at	humidity drop or temperature rise
Use for	heaters, dehumidifiers, low-temp alarms
4 and 5	
Close at	humidity drop or temperature rise
Open at	humidity rise or temperature drop
Use for	cooling, humidifiers, high-temp alarms
UNIT CONSTRUCTION	
Unit Dimensions - H x W x D (in./mm)	3.03 x 2.36 x 1.69/77 x 60 x 43



THERMAL MANAGEMENT 3

Spec-00583 J

SUBJECTTOCHANGEWITHOUTNOTICE

NVENT.COM/HOFFMAN



MECHANICAL HYGROSTAT



nvent hoffman

INDUSTRY STANDARDS

cURus; File No. E164102

CE

APPLICATION

The Mechanical Hygrostat controls relative air humidity inside an enclosure to prevent condensation and corrosion that can damage components. It can also be connected to an enclosure heater, cooling fans, warning lights or other devices.

The critical relative humidity (RH) level for most components is 65 percent. Above 65 percent RH, condensation can form and cause electrical equipment to malfunction.

FEATURES

- Adjustable relative humidity range High switching capacity Long service life (>100,000 cycles)

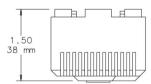
- Maximum permissible air velocity of 50 ft./sec. (15 m/s) Maximum switching voltage = 250 VAC
- 250 V should be switched only in a non-condensing environment Change-over contact
- Mounting clip for 35-mm DIN rail
- Connection: 3-pole terminal for AWG 14 max. (2.5-mm squared)
- Contact resistance less than $10 \text{ m}\Omega$

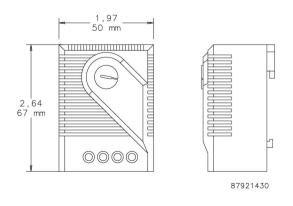
FINISH

· Light-gray plastic, UL94V-0

Performance Data Mechanical Hygrostat

CATALOG NUMBERS	
	AMHUM
ELECTRICAL DATA	
Switching Capacity (Minimum)	100mA @ AC/DC 20 V
Switching Capacity (Maximum)	5A @ AC 250 V (resistive load)
	$0.2A \oplus AC 250 V$ (inductive load at cos $O = 0.8$)
	DC 20W
Operating Temperature Adjustable) (°F/°C)	32/0 to 140/60
Storage Temperature (°F/°C)	-40/-40 to 140/60
UNIT CONSTRUCTION	
Unit Dimensions - H x W x D (in./mm)	2.64 x 1.97 x 1.50/67 x 50 x 38
Weight (oz/g)	2.00/60





NVENT.COM/HOFFMAN

PH 763.422.2211

Spec-00583 J

THERMAL MANAGEMENT 4



NVENT HOFFMAN TEMPERATURE CONTROL SWITCH

INDUSTRY STANDARDS

cURus; File No. E164102

Protection rating IEC IP30

CSA Certified, File Number 215952

UL94-VO

APPLICATION

CF

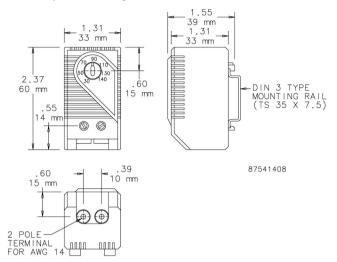


FEATURES

- Additional label for conversion to Celsius scale and blank label to cover set point range label when adjustment after initial setting is not desired are included
- Bimetal temperature sensor
- Plastic housing
- Connections consist of tubular screw terminals for AWG 14
 (.04 sq. in.)
- Provision for both panel mounting and DIN rail mounting

FINISH

· Molded plastic housing is black



Performance Data Temperature Control Switch

These easy-to-install thermostats regulate and monitor air temperature in enclosures that contain heat-emitting equipment. Thermostats prolong heater and fan life expectancy by controlling operation time and increase electrical component working efficiency by exposing them to fewer environmental contaminants.

CATALOG NUMBERS		
	ATEMNC	ATEMNO
ELECTRICAL DATA		
Maximum Load (Switching Capacity)		
120 VAC	15 A resistive / 2 A ir	nductive @ 120 VAC
250 VAC	10 A resistive / 2 A inductive @ 250 VAC	
DC	DC 3	0 W
Minimum load	20 mA (all	voltages)
Contact Type	NC (normally closed), quick acting	NO (normally open), quick acting
Control Application	Heater	Fan
UNIT CONSTRUCTION		
Unit Dimensions - H x W x D (in./mm)	2.37 x 1.31 x 1.5	i5/60 x 33 x 39







PANEL-MOUNT FAN SPEED CONTROLS



INDUSTRY STANDARDS

UL 508 Listed; File No. E249700 cUL Listed per CSA C22.2 No. 14; File No. E249700

APPLICATION

Perfect for offices, classrooms and other noise-sensitive areas. Fan Speed Control optimizes airflow in a cabinet or rack, balancing air volume requirements with noise level and power use.

FEATURES

- Automatically adjusts fan speed depending on remote . temperature sensor input
- Temperature set point is field adjustable; preset at 35 C (95 F) Idle speed and temperature slope are field-adjustable Push-to-reset thermal circuit breaker inside control housing

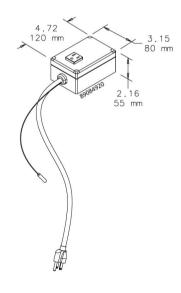
- Compact polycarbonate control housing can be mounted in any position
- NEMA 5-15R outlet provides power to fan Six-foot (1.83-m) power cord plugs into standard 120 V, 50 or 60 Hz outlet
- Remote temperature sensor with 10-ft. (3.05-m) lead mounts in airflow
- Mounting brackets included .

FINISH

AFANTSC: Light-gray polycarbonate control housing

Performance Data Panel-Mount Fan Speed Controls

CATALOG NUMBERS	
	AFANTSC
ELECTRICAL DATA	
Rated Voltage	120 VAC
/laximum Nominal Current (Amps)	2
Femperature Settings (°F)	86, 95, 104, 113
Temperature Settings (°C)	30, 35, 40, 45
DESIGN DATA	
Description	Panel-Mount
	Fan Speed Control
Application	Fan speed controlled automatically
	with remote temperature sensor



NVENT.COM/HOFFMAN

Spec-00583 J



nVent HOFFMAN **HAZARDOUS LOCATION THERMOSTAT**



INDUSTRY STANDARDS

CE

Conformity Certificate LCIE (Laboratoire Central des Industries Electriques) LCIE 01 ATEX 6074

EEx d IIC T6/II 2 GD, IP6x T85 °C IEC 60529, IP65/1 (grounded)

APPLICATION

Compact mechanical thermostat for temperature control of heaters or low-temperature alarms in enclosures that are used in explosionhazardous areas.

FEATURES

- Compact design
- Set temperature

- High switching capacity Small hysteresis (switching difference) Long service life (greater than 100,000 cycles) Can usually be connected directly and switched without the need for additional relays

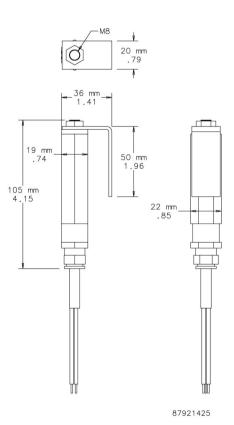
- Thermostatic bimetallic sensor element One-pole contact opens with rising temperature Mounting bracket and DIN clip for mounting Connection cable: Si HF JZ 3 x AWG 18 x 3.3 ft. (0.75 mm² x 1 m) •

FINISH

Black anodized aluminum

Performance Data Hazardous Location Thermostat CATALOC NUMADEDO

	HLTHERMNC
DESIGN DATA	
Maximum Operating Voltage (AC)	250 V
Maximum Operating Voltage (DC)	100 V
Switching Capacity @ 250 VAC	4A resistive; 1A ind. (cos f = 0.6)
Switch Off (Open) Temperature (°F)	77 +/- 6
Switch Off (Open) Temperature (°C)	25 +/- 3K
Switch On (Closed) Temperature below Switch Off Temperature (°F)	7.2 +/- 2
Switch On (Closed) Temperature below Switch Off Temperature (°C)	4 +/- 1K



THERMAL MANAGEMENT



LE



Notes



RSPSupply - 1-888-532-2706 - https://www.RSPSupply.com