

Electronic Hygrotherm



Industry Standards

CE

cURus; File No. E164102

Controllers

Application

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

Feature

- Temperature (32-140 F) and humidity (50%-90% RH) adjustment
- · High switching capacity
- · Optical function displays (LED) in each control
- Long service life (100,000 cycles NO) (50,000 cycles, NC)
- Mounting clip for 35-mm DIN rail
- Change-over contact (relay)
- Connection: 5-pole terminal for AWG 14 max (2.5-mm square)
- Plastic housing UL94V-0
- Vertical mounting
- · Maximum switching capacity:
 - 120 VAC 8A (Resistive Load)
 - 240 VAC 8A (Resistive Load)
 - 120 VAC 3A (Inductive Load)
 - 240 VAC 3A (Inductive Load)
 - 24 VDC 4A

Finish

Light-gray plastic UL94V-0

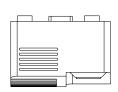
Bulletin: D85

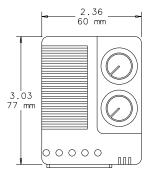
Standard Product

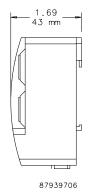
					Temperature			
				Humidity Set Point	Set Point	Operating Temperature		
Catalog Number	AxBxC in.	AxBxC mm	Hysteresis	(adjustable)	(adjustable) (°F)	Range (°C)	Storage Temperature (°F)	Storage Temperature (°C)
ATEMHUM	3.03 x 2.36 x 1.69	77 x 60 x 43	~ 3.6 F (2K) ± 1.8 F (1K) tolerance	50-90% RH	32 to 140	0 to 60	-4 to 176	-20 to 80

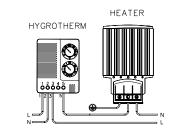
Relay Output

Contacts	Close at	Open at	Use for	
3 and 5	humidity rise or temperature drop	humidity drop or temperature rise	heaters, dehumidifiers, low-temp alarms	
4 and 5	humidity drop or temperature rise	humidity rise or temperature drop	cooling, humidifiers, high-temp alarms	

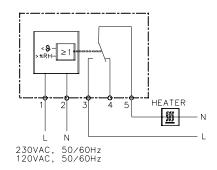








EXAMPLE OF CONNECTION



CONNECTION DIAGRAM



Mechanical Hygrostat



Industry Standards

CE

Standard Product

Controllers

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 electronic equipment to malfunction.

Features

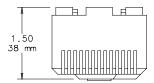
- Adjustable relative humidity range
- High switching capacity
- Long service life (>100,000 cycles)
- Maximum permissible air velocity of 50 ft./sec. (15 m/s)
- Maximum switching voltage = 250 VAC 250 V should be switched only in a non-condensing environment
- Change-over contact
- Mounting clip for 35-mm DIN rail
- Connection: 3-pole terminal for AWG 14 max. (2.5-mm squared)
- Contact resistance less than 10 m Ω

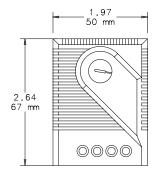
Finish

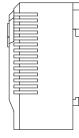
Light-gray plastic, UL94V-0

Bulletin: D85

			Switching	Switching	Operating	Operating			
			Capacity	Capacity	Temperature	Temperature	Storage	Storage	
Catalog Number	AxBxC in.	AxBxC mm	(Minimum)	(Maximum)	Adjustable) (°F)	(Adjustable) (°C)	Temperature (°F)	Temperature (°C)	Setting Range
AMHUM	2.64 x 1.97 x 1.50	67 x 50 x 38	100mA @ AC/DC 20 V	5A @ AC 250 V (resistive load)	32 to 140	0 to 60	-4 to 176	-20 to 80	35 to 95% RH
				0.2A @ AC 250 V (inductive load					
				at $\cos 0 = 0.8$)					
				DC 20W					







87921430



Dual Thermostat



Controllers

Industry Standards

CE

CSA File No. 215952

cURus; File No. E164102

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 mm ²)
- Mounting clip for 35-mm DIN rail

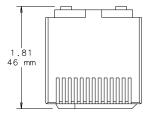
Finish

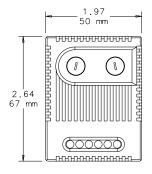
Light-gray plastic, UL94V-0

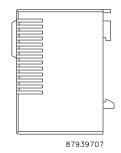
Bulletin: D85

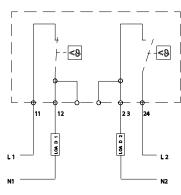
Standard Product

	,		Switching Capacity	Switching Capacity	Setting Range	Setting Range
Catalog Number	AxBxC in.	AxBxC mm	(Normally Closed)	(Normally Open)	(Normally Closed)	(Normally Open)
ADLTEMP	2.64 x 1.97 x 1.81	67 x 50 x 46	10 A resistive/2 A	5 A resistive/2 A	32-140 F	32-140 F
			inductive @250 VAC,	inductive @250 VAC,		
			DC 30 W	DC 30 W		









CONNECTION DIAGRAM



Temperature Control Switches



Industry Standards

cURus; File No. E164102 UL94-VO

Protection rating IEC IP30 CSA Certified, File Number 215952 CF

Application

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.

Controllers

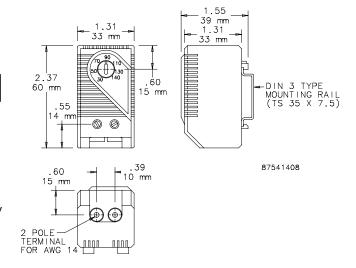
Features

- 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

Bulletin: D85



Standard Product

Catalog Number	Contact Type	Control Application
ATEMNC	NC (normally closed), quick acting	Heater
ATEMNO	NO (normally open), quick acting	Fan

Switching Capacity

Load	Amps
Maximum load	15 A resistive / 2 A inductive @ 120 VAC
	10 A resistive / 2 A inductive @ 250 VAC
	DC30 W
Minimum load	20 mA (all voltages)