

# ELECTRONIC HYGROTHERM

## ETF012 Series



- Temperature and Humidity Adjustable
- Optical Operating Display (LED)
- High Switching Capacity
- Clip Fixing

The electronic hygrotherm senses the ambient temperature and relative humidity in an enclosure with electric/electronic components, and turns on a heater (or alternatively, a fan) at either set point, helping prevent the formation of condensation in the enclosure. The LED integrated in the adjustment knob on the active controller is lit when the connected device is in operation.



ETF01230000 shown larger than actual size.

### SPECIFICATIONS

**Switch Difference (Temperature):** 2K ( $\pm 1$ K tolerance) at 25°C (77°F) (50% RH)

**Switch Difference (Humidity):** 4% RH ( $\pm 1$ % tolerance) at 25°C (77°F) (50% RH)

**Reaction Time (Humidity):** Approximately 5 sec

**Contact Type:** Change-over contact (relay)

**Contact Resistance:** <10 m $\Omega$

**Service Life:**

**NC:** >50,000 cycles

**NO:** >100,000 cycles

**Max Switching Capacity:** 24 Vdc, 4 A

**Relay NC:** 240 Vac, 6 (1) A output

**Relay NO:** 240 Vac, 8 (1.6) A output

**NC:** 120 Vac, 6 (1) A

**NO:** 120 Vac, 8 (1.6) A

**EMC:** Acc. to EN 55014-1-2, EN 61000-3-2, EN 61000-3-3

**Optical Indicator:** LED

**Connection:** 5-pole terminal, clamping torque 0.5Nm max; rigid wire 2.5 mm<sup>2</sup> (0.10 in<sup>2</sup>) stranded wire (with wire end ferrule) 1.5 mm<sup>2</sup> (0.06 in<sup>2</sup>)

**Mounting:** Clip for 35 mm (1.4") DIN rail, EN50022

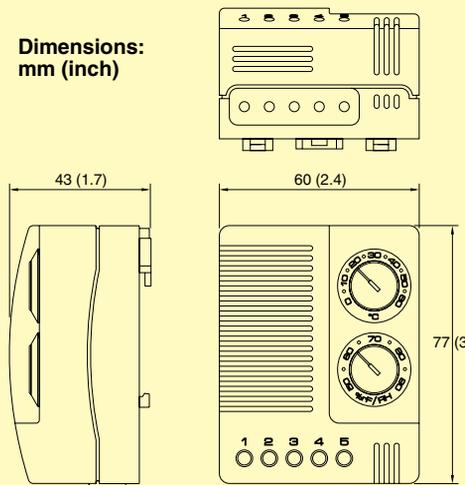
**Casing:** Plastic according to UL94 V-0, light gray

**Dimensions:** 77 x 60 x 43 mm (3.0 x 2.4 x 1.7")

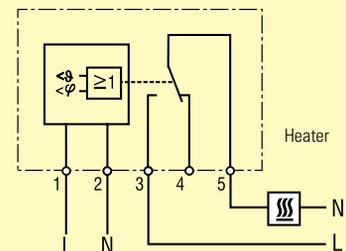
**Weight:** Approx. 0.20 kg (7.1 oz)

**Fitting Position:** Vertical

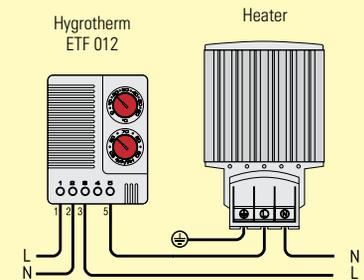
**Dimensions:**  
mm (inch)



### Connection diagram



### Example of connection



**Operating Temperature:** 0 to 60°C (32 to 140°F)

**Storage Temperature:** -20 to 80°C (-4 to 176°F)

**Protection Type:** NEMA 2 (IP20)

### To Order

MODEL NO.	DESCRIPTION
ETF01230900	Humidity and °F temp control, SPDT, 32 to 140°F, 50 to 90% RH, 100 to 240 Vac
ETF01230000	Humidity and °F temp control, SPDT, 0 to 60°C, 50 to 90% RH, 100 to 240 Vac

Ordering Example: ETF01230900, electronic hygrotherm.