

Electronic Hygrotherm ETF 012



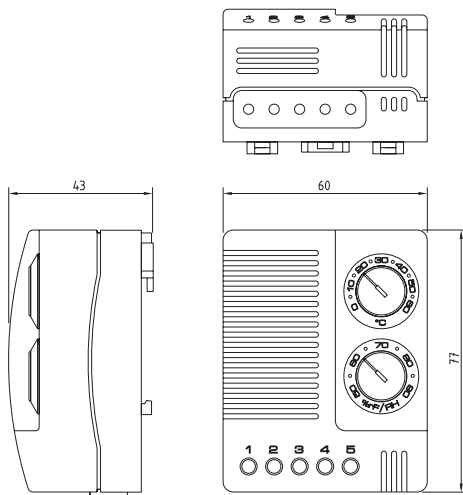
- **Temperature and humidity adjustable**
- **Optical operating display (LED)**
- **High switching capacity**
- **Clip fixing**

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.

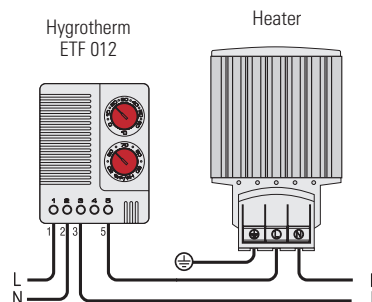
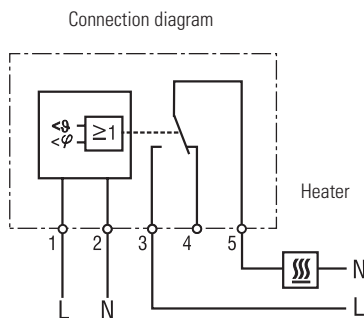


Technical Data

Switch difference (temperature)	2K ($\pm 1K$ 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)	approx. 5 sec.
Contact type	change-over contact (relay)
Contact resistance	< 10m Ω
Service life	NC: > 50,000 cycles NO: > 100,000 cycles
Max. Switching capacity (Relay output)	NC: 240VAC, 6 (1) A NO: 240VAC, 8 (1.6) A NC: 120VAC, 6 (1) A NO: 120VAC, 8 (1.6) A 24VDC, 4A
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 2.5mm ² stranded wire (with wire end ferrule) 1.5mm ²
Mounting	clip for 35mm DIN rail, EN50022
Casing	plastic according to UL94 V-0, light grey
Dimensions	77 x 60 x 43mm
Weight	approx. 0.20kg
Fitting position	vertical
Operating / Storage temperature	0 to +60°C (+32 to +140°F) / -20 to +80°C (-4 to +176°F)
Protection type	IP20



Example of connection



Art. No.	Operating voltage	Setting range temperature	Setting range humidity	Approval
01230.0-00	230VAC, 50/60Hz	0 to +60°C	50 to 90% RH	VDE + UL File No. E164102
01230.9-00	120VAC, 50/60Hz	+32 to +140°F	50 to 90% RH	UL File No. E164102
01230.9-01	120VAC, 50/60Hz	0 to +60°C	50 to 90% RH	UL File No. E164102