

# ETF 012

## HYGROTHERM

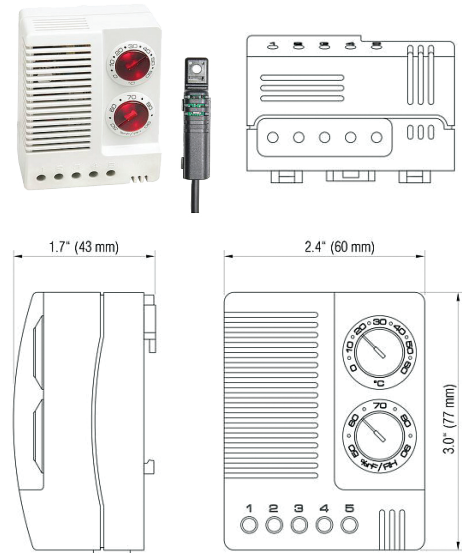
### ELECTRONIC HYGROTHERM WITH EXTERNAL SENSOR

The ETF 012 senses the ambient temperature and relative humidity in an enclosure.

Depending on which contact combination is chosen, it then turns on or off a connected device if either the temperature is below or the humidity is above the set point. The integrated LED in each adjustment knob is lit when indicating the active function.

The external sensor can be positioned freely anywhere in the enclosure for precise measurements.

<b>Switching Difference (Temperature)</b>	2 K (±1 K tolerance) at +25 °C (+77 °F), 50 %RH
<b>Switching Difference (Humidity)</b>	4 %RH (±1 % tolerance) at +25 °C (+77 °F), 50 %RH
<b>Reaction Time (Humidity)</b>	approx. 5 sec.
<b>Contact Type</b>	change-over contact (relay)
<b>Service Life</b>	VDE: NO/NC > 15,000 cycles UL: NO/NC > 30,000 cycles
<b>Max. Switching Capacity (Relay Output)</b>	10 A resistive / 1.6 A inductive @ AC 240 V 0.6 A @ DC 60 V*
<b>Max. Inrush Current</b>	AC 30 A for 10 sec.
<b>Connection</b>	5-pole terminal, clamping torque 0.5 Nm max.:solid/ stranded** wire - AWG 14 max. (2.5 mm <sup>2</sup> )
<b>Mounting</b>	clip for 35 mm DIN rail, EN 60715
<b>Casing</b>	plastic, UL 94V-0, light grey
<b>Dimensions</b>	3.0 x 2.4 x 1.7" (77 x 60 x 43 mm)
<b>Weight</b>	approx. 3.5 oz. (100 g)
<b>Fitting Position</b>	vertical
<b>Operating/Storage Temperature</b>	-40 to +140 °F (-40 to +60 °C)
<b>Operating/Storage Humidity</b>	max. 90 % RH (non-condensing)
<b>Protection Type</b>	IP20
<b>Approvals</b>	UL File No. E164102 / VDE / EAC



*Dimensioned Drawings.*

- Efficient temperature & humidity control
- Wide voltage range
- Operating temperature down to -40 °C
- High switching capacity
- With external sensor



\*Not UL confirmed.

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

Part No.	Operating Voltage	Setting Range Temperature	Setting Range Humidity
01231.0-00	AC 100-240 V, 50/60 Hz (min. AC 90 V, max. AC 265 V)	0 to +60 °C	50 to 90 %RH
01231.9-00	AC 100-240 V, 50/60 Hz (min. AC 90 V, max. AC 265 V)	+32 to +140 °F	50 to 90 %RH
01231.1-00	DC 24-48 V (min. DC 20 V, max. DC 60 V)	0 to +60 °C	50 to 90 %RH