

## ECtemp 316



The **ECtemp 316** is a simple electronic thermostat with enhanced functionality which can be installed in electric cabinets with DIN rail attachment. The thermostat is mainly used for frost protection on roofs, in gutters and downpipes. Additionally it can be used to control room and floor temperature, ventilation, cooling or to the control of snow melting on ground, pipe tracing and similar installations.



The main features of the thermostat is temperature range mode – with setting both an upper and a lower temperatures in between which the thermostat allows the system to heat. This mode is used primarily for controlling Frost Protection systems on roofs, in gutters and downpipes (an external outdoor air sensor must be used).

The thermostat is equipped with 2 additional buttons to adjust the hysteresis and the temperature value for leveraging in economy periods (an external timer must be used).

The thermostat has relay with 2 contact pairs - NO (normally opened) and NC (normally closed), and it is supposed to use thermostat for heating and cooling systems. Additionally NO and NC contact pairs are not wetted by a voltage source inside thermostat and can be used for control systems with any voltage up to 250 V.

It is designed so that the sensor circuit is galvanically separated from the high voltage part.

### Product specifications

<p><b>Benefits</b></p> <ul style="list-style-type: none"> <li>• <b>Night set-back</b></li> <li>• <b>Minimum temperature limiter</b></li> <li>• <b>Adjustable hysteresis</b></li> <li>• <b>DIN rail attachment</b></li> <li>• <b>Low standby consumption</b></li> <li>• <b>Large scope of application</b></li> <li>• <b>Protective separation</b></li> </ul> <p><b>Compliance symbols:</b></p>  <p><b>Standard compliance</b></p> <ul style="list-style-type: none"> <li>• <b>EN/IEC 60730-1 (general)</b></li> <li>• <b>EN/IEC 60730-2-9 (thermostat)</b></li> </ul>	Operation voltage	220 - 240 V~, 50/60 Hz
	Standby power consumption	Max. 0,25 W
	Resistive load	Max. 16 A, 3680 W @ 230 V
	Inductive load	Max. 1 A, cos φ = 0.3
	Hysteresis	0 °C to 6 °C
	Ambient temperature	-10 °C to +45 °C
	Lowering in economy periods	0 °C to 8 °C
	Temperature range	-10 °C to +50 °C
	Minimum temperature range	-10 °C to +5 °C
	Storage temperature	-20 °C to +65 °C
	IP class	IP 30
	Protection class	Class II - 
	Dimensions (H/W/D)	85 x 52 x 58 mm
	Weight	180 g
	Marking	D316

### Types

Item no.	Product name	Temperature range	Sensor type	EAN no.
088L0443	<b>ECtemp 316 -10 - +50°</b>	-10 °C to +50 °C	Wire sensor, 3 m, NTC 15 kOhm at 25 °C	5703466130339

Connection scheme

