

# DEVireg™ 316



The **DEVireg™ 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.

## Benefits:

- Night set-back
- Minimum temperature limiter
- Adjustable hysteresis
- DIN rail attachment
- Low standby consumption
- Large scope of application
- Protective separation

## Standard compliance:

- EN/IEC 60730-1 (general)
- EN/IEC 60730-2-9 (thermostat)

## Compliance symbols:



| Type                        | Value                          |
|-----------------------------|--------------------------------|
| Operation voltage           | 220 - 240V~ 50/60 Hz           |
| Standby power consumption   | max. 0,25 W                    |
| Resistive load              | Max. 16 A, 3680 W @ 230 V      |
| Inductive load              | max. 1 A, $\cos \varphi = 0,3$ |
| 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                |
| Controller type             | 1 B                            |
| 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: DEVireg™ 316

| Item no. | Product name | Temperature range | Sensor type                               | EAN no.       |
|----------|--------------|-------------------|---|---------------|
| 140F1075 | DEVireg™ 316 | -10 °C to +50 °C  | Wire sensor, 3 m,<br>NTC 15 kOhm at 25 °C | 5703466209240 |

Accessories

| Item no. | Product name                               | Description   | EAN no.       |
|----------|--|---|---------------|
| 140F1096 | Outdoor sensor IP44                        | 80 x 50 x 35 mm, NTC 15 kOhm at 25 °C, IP 44  | 5703466209691 |
| 140F1091 | Sensor cable 3 m, 15 kOhm, Santropene      | Wire sensor, 2x0,75 mm <sup>2</sup> , NTC 15 kOhm at 25 °C, Ø5 mm, black Santropene (TPV) outer sheath, IP 67 | 5703466209301 |
| 140F1098 | Temperature Sensor 10 m NTC 15k Santropene |   | 5703466210734 |
| 19121445 | Sensor cable 40 m, 15 kOhm, Santropene     |   | 5703466115015 |
| 140F1092 | Outdoor sensor 2,5 m, 15 kOhm, PVC         | Wire sensor, 2x0,75 mm <sup>2</sup> , NTC 15 kOhm at 25 °C, Ø10 mm, white PVC outer sheath, IP 67             | 5703466209318 |

Connection scheme

