

## Condensation monitor TPS from B+B

Mountable on pipes and flat surfaces

The condensation monitor is an electronic Hygrostat which is meant to sense dew formation or beginning of water condensation on cooled objects. As soon as the measured value of surface humidity exceeds a certain limit (approx. 94 % RH), it opens the relay contact and trips the static switch contact (safety function). For example, this signal can be used for switching on a heater. With the new measurement philosophy and application of a special sensor with logarithmic characteristics, it is now possible to regulate very close to the dew start point. With the help of this technology, the maximum cooling performance of the ceilings can now be achieved, without the risk of condensation forming.

During product development, reliable mode of operation was the most important criterion. The circuit is protected against overvoltage, reverse polarity and faulty connections. In addition to the humidity sensing element, which reacts to the critical air humidity values below the condensation limit, there is a safety circuit which detects the dew occurrence and independently trips the static power circuit. With the optimised AC-circuit technology, the sensor experiences even a short time contact with water without getting destroyed due to electrolysis effect.

A sinter filter over the sensor element protects it from accumulated dust and ensures many years of operation without cleaning or maintenance.

The condensation monitor is available in two different variants:

The model with attached tubular sensor can be directly mounted on the inlet of the cooling panels with minimum fitment expenses. The sensor with aluminium profile is fitted on the tube and fixed with the enclosed assembly strap. The wiring is also straightforward. A 4-pole Phoenix connector completes the device. The device is provided with a mains lead and plug, which has only to be connected.

### Features

- Condensation monitor for cool ceilings
- Switch point 94 % RH on surface
- Operating temperature from 0 to 60 °C
- Potential free static switch contacts
- Operating voltage 20-28 V DC/AC~
- Defined behaviour during dew formation or condensation
- Damp proof sensor with dust filter
- Calibrated, reliable device
- Over voltage protection
- Spill waterproof electronics
- Simple assembly and mounting
- Minimum wiring expenses (plug)
- Maintenance free, no wearing parts
- High system reliability
- German manufacturing according to QS ISO 9001



Product range of the B+B Thermo-Technik GmbH:

Development and production of temperature and humidity probes

Temperature and humidity sensors

Temperature and humidity measuring systems

Pressure sensors and pressure transducers, modules

Motion detection

Further information at [www.bb-sensors.com](http://www.bb-sensors.com)