

RAIN PRESENCE Sensor

t018 TPP



Establishing beginning and end of precipitation



Ease of installation and use



High resolution and precision

Description

TPP is an excellent easy-to-use device, which allows to detect rainfall, establishing the start and end of the precipitation in a very precise way, not being activated by dew or water condensation. The sensor indeed has been thoroughly designed in order to manufacture a very accurate device, capable of measuring also very short and small precipitation.

TPP sensing element is composed of two rolled electrodes, one of whose is pierced and slightly sloped, and they are placed at short distance one from the other. In presence of water the system bursts in electrical conductivity, and a heater located behind the lower rolled surface provides evaporation of the rain residual, dew or ice. The sensor can detect not only the presence of rain, but even the presence of snow if properly configured (upon specific request).

TPP is supplied with power and signal cable (4 m).



Main features

- **Establishing beginning and end of precipitation**
- **Wide sensitive sensor surface**
- **Virtually maintenance free**
- **Easy to use**
- **High resolution and precision**

Technical Specifications*

Measurement performance

Rain presence

Transducer	Laminated electrodes and heater		
Measurement range	ON / OFF		
Resolution	1 s		
Accuracy	1 s		
Heating system power	10 W max		

Operating conditions

Temperature	-10°C ÷ +70°C		
Humidity	0% ÷ 100%		

Outputs

Output	Relay contact		
Maximum tension reed contact output	30 V		
Maximum current reed contact output	1000 mA		

Power supply and Consumption

Voltage supply	6 ÷ 22 Vdc		
Consumption (mA)	Min	Typical	Max
Relay contact	-	15	-
Heater	-	250	-

Mechanical specifications

Protective body	Plastic material and stainless steel		
Weight	410 g		
Dimensions	80 x 80 x 285 mm		
Electrical connections	IP67 / 4-pole male connector		

Ordering codes

Relay contact output	PSM-t018-TPP-N
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*Changes on technical performances can be applied upon request of specific calibration