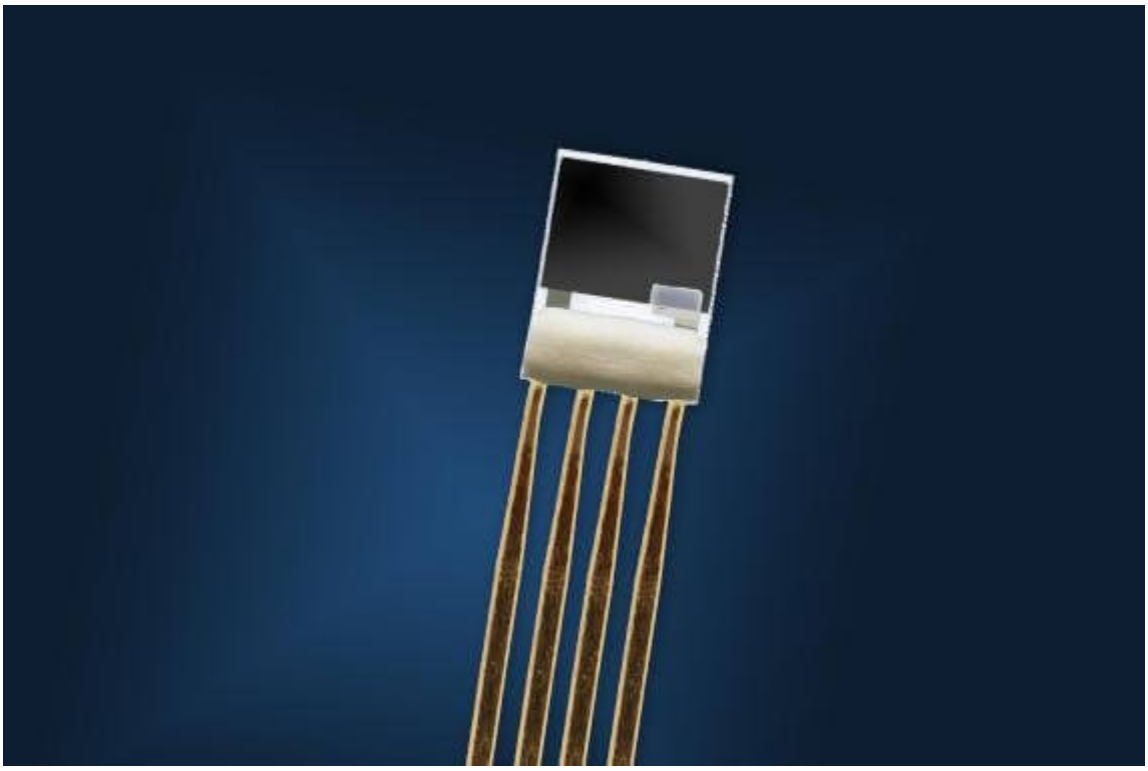
Capacitive Humidity Sensor P14 2FW Thermo (150pF +/-50pF)



Heatable Humidity Sensor with integrated Pt 100 heating element, -50+C to +150°C, 5.0 x 3.8 x 0.8mm

Capacitive Humidity Sensor P14 2FW Thermo with integrated Pt-heater element and Au-coated Ni flat wires

Product Name: P14 2FW Thermo (P0K1)
Capacitance: 150pF +/-50pF (at +23 °C and 30 % RH)
Operating humidity range: 0 % RH to 100 % RH
Operating temperature range: -50 °C to +150 °C
Dimensions: 5.0 x 3.8 x 0.8 mm
Connection type: Au coated Ni flat wire
Wire dimensions: 0.2 x 0.25 mm, 10 mm long
Response time: < 5 s
Measured medium: Air/Gas

Product code: 103590

Product details

P14 2FW Thermo - Optimal for dew point applications

The iST P14 2FW Thermo was designed especially for dew point applications and humidity generators. The favorable one-chip solution consists of a capacitive humidity sensor, based on the standard P14 sensor, together with a heating element, which, at the same time, works as a valid Pt100 sensor. The sensor achieves outstanding measurement accuracy due to the optimal thermal coupling which enables a fast recovery time. Due to heating from the Pt100, humidity is quickly released and enables fast re-measurements after condensation. Furthermore, the Pt100 sensor heats out gases or vapors from the polymer, which might cause a drift of the humidity signal. The P14 2FW Thermo humidity sensor is capable of measuring 0 % RH to 100 % RH (maximal dew point +85 °C) with a capacitance of 150 pF ±50 pF (at 30 % RH and +23 °C) and operates within a temperature range of -50 °C to +150 °C.

Quality

Consistent with the well-known, high-quality standards in Switzerland, IST AG is certified according to ISO 9001:2015 (quality) and ISO 14001:2015 (environment). Appropriate processes are part of our daily work. They are regularly audited and extended parallel to the growth of our company.

> Read more

The online shop

Quantity (pieces)	Price (per piece)
1-10	CHF 28.53
11-50	CHF 26.06
51-100	CHF 24.51

Stock: **50**