Capacitive Humidity Sensor P14 Rapid-W (140pF +/-40 pF)



Capacitive humidity sensor P14-Rapid with wires. Stable and robust humidity sensor with very fast response time,

The P14 Rapid-W is optimal for meteorology applications like weather balloons and radiosondes. -80 °C to +150 °C, 5.0 x 3.81 mm, 10 mm wires

Product Name: P14 Rapid-W (140 +/-40pF)
Capacitance: 140pF +/-40pF (at +23 °C and 30 % RH)
Operating humidity range: 0 % RH to 100 % RH
Dimensions: 5.0 x 3.81 x 0.4 mm
Connections: Au/Cu-wire
Wire dimensions: Ø 0.4 mm, 10 mm long
Response time: < 1.5 s
Measured medium: Air/Gas
Product Old code: 040.00177
Product code: 103573

Product details

P14 Rapid - Optimal for weather balloons and radio sondes

Stable and robust humidity sensors with ultra-fast response time are often required in applications involving meteorology – not only in normal conditions, but also under elevated environmental constraints such as extremely low temperatures, high radiation levels and under extreme condensation. Such applications need fully tailored solutions, such as those provided by the iST P14 Rapid. The P14 Rapid humidity sensor combines speed and full range operation in an ideal way. The sensor is capable of measuring 0 % RH to 100 % RH (maximal dew point +85 °C) with a capacitance of 140 pF ±40 pF (wired) / 180 pF ±50 pF (SMD) (at 30 % RH and +23 °C) and operates within a temperature range of -80 °C to +150 °C.

Benefits & Characteristics of this humidity sensor

- High chemical resistance
- Very low drift
- Wide temperature range
- High humidity stability
- Resistance to condensation
- Fast recovery time

Customer-specific sensor available upon request

Alternative wires

This iST humidity sensor is available with CuP-SIL-wire post-plated with Sn, Au/Cu-wire or as SMD for automatic packaging as standard.

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)
10-49	CHF 36.66
50-99	CHF 29.10
100-150	CHF 25.75

Stock: **150**