Planar humidity module HYT 271 for harsh conditions



RH/T module with I²C outputs, for up to 125°C and 100% RH, for air and other media

Humidity and temperature monitoring module with MK33 sensor element suitable for high humidity and harsh environmental conditions

Product Name: HYT271 MK33
Operating humidity range: 0 % RH to 100 % RH
Operating temperature range: -40 °C to +125 °C
Accuracy humidity: ±1.8 % RH (0 % RH to 90 % RH)
Accuracy temperature: ±0.2 °C at 0-60°C
Digital interface: I²C, default address 0x28
Operating voltage: 2.7 V to 5.5 V
Current consumption: < 1µA in sleep mode, < 22µA at 1Hz measuring rate
Dimensions: 10.2 x 5.1 x 1.8 mm
Connections: SIL RM
Wire dimensions: 10.5 x 0.5 mm (LxW)

Product code: 153382

Product details

Benefits & Characteristics of the HYT 271

Mechanically robust and with a chemical and condensed waterproof sensing area, the digital iST HYT 271 humidity modules offer the widest application window and an optimal price-performance ratio. Precisely calibrated, the HYT 271 delivers an accuracy of ±1.8 % RH and ±0.2 °C and combines the advantages of a precise, capacitive polymer humidity sensor with the high integration density and functionality of an ASIC. The digital software integrated in the module processes the measured data and delivers the physical parameters of relative humidity and temperature over the I²C compatible interface as digital values. The HYT 271 humidity module is therefore fully interchangeable without adjustment and both the linearity error as well as temperature drift are corrected “on-chip” through computation resulting in an outstanding accuracy over a wide range of applications.

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.

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The online shop

Quantity (pieces)	Price (per piece)
1-9	CHF 42.44
10-50	CHF 37.08

Stock: **67**