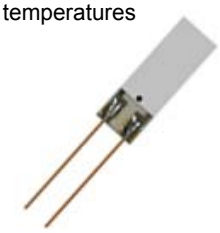
MK33
Capacitive Humidity Sensor

Product

Our mature capacitive humidity sensor which features a basic capacity of 300 pF provides a large Humidity-Temperature-Range and therefore it is suitable for many applications. The choice of the connectors opens the customer almost unlimited possibilities in probe constructions.

Advantages

- Employment in extreme environment conditions like e.g. hot oil, in swimming pool, in piggery, in humidity generators
- Dewing resistant – fast recovering time after dewing, also at very high dewpoint temperatures
- Excellent drift values
- Extreme resistance to various chemicals
- Extreme wide temperature operating range
- Various wired solutions available
- RoHs conform

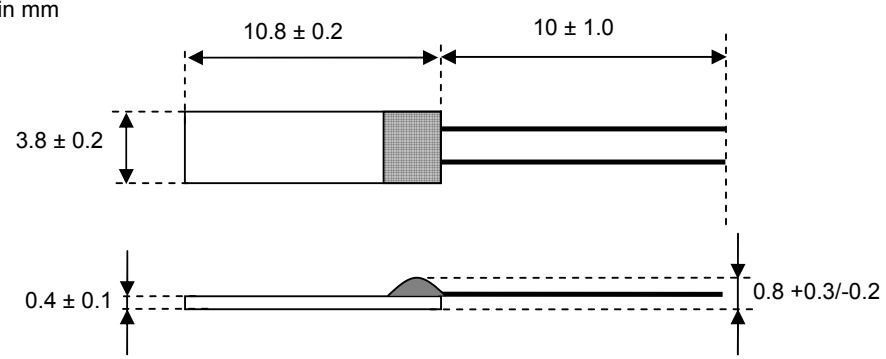


Technische Daten

Humidity Operating Range:	0 ... 100% Relative Humidity
Operating temperature range:	-40 ... +190 deg C
Capacitance:	300 pF ± 40 pF (at 30% RH and 23 deg C)
Sensitivity:	0,45 pF / %RH (20 ... 95% RH)
Loss Factor:	≤ 0.01 (at 23 deg C, at 10kHz, at 90% RH)
Linearity:	± 2,0% RH (15 ... 90% RH at 23 deg C, after one point calibration)
Hysteresis:	< 2,0% RH
Response Time T_{63}:	< 6 s (50% RH → 0% RH)
Frequency Range:	1 ... 100 kHz (recommend 10 KHz)
Maximum Operating Voltage:	< 12 Vpp AC
Signal Form:	alternating signal without DC bias
Connectors:	Wires or customer specific, optional SMD or mini-design

Construction Sizes

Dimension in mm



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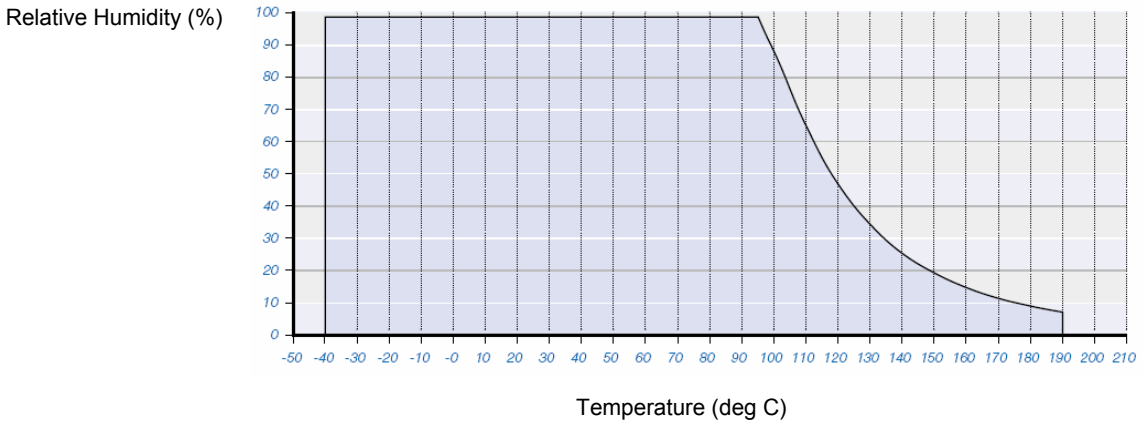
HUMIDITY

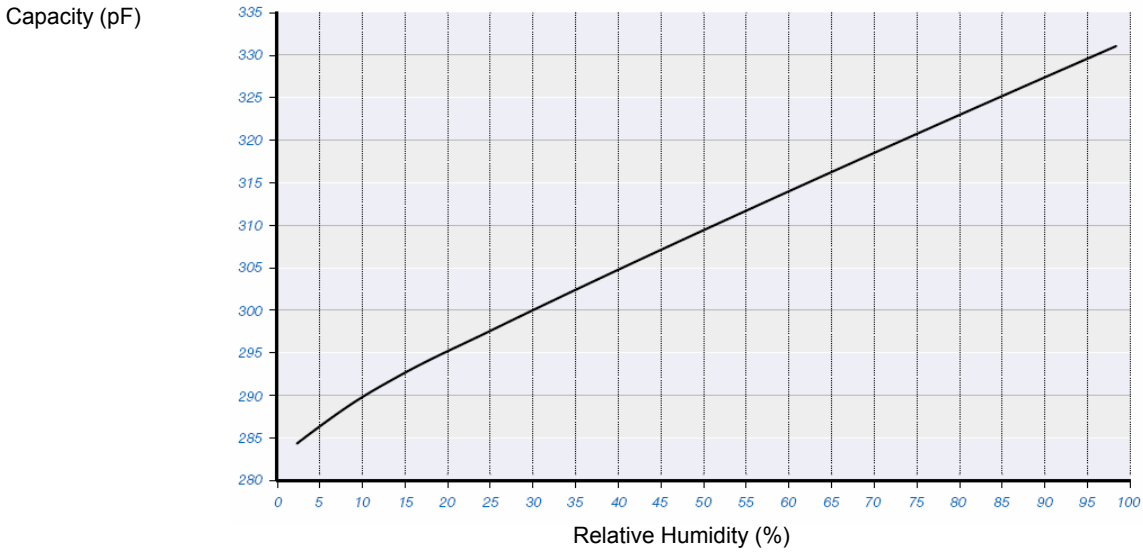
FLOW

TEMPERATURE

Humidity-Temperature-Range



Sensor Characteristic



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