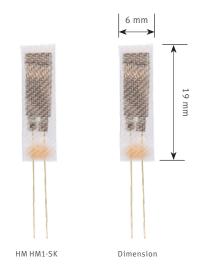
HYGROMER HM1-SK



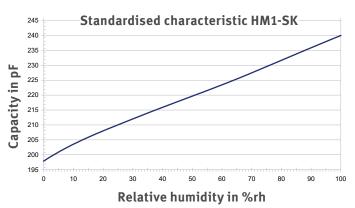
Advantages

- Designed for the use in natural outdoor environment and high humidity areas
- Application range: -50...80 °C / 0...100 %rh
- Advanced sensor construction, mechanical robust
- Coated humidity sensor against pollutants
- Response time < 15 s

Applications

- · Meteorology and outdoor measurement
- Agriculture with presence of chemical substances
- · High-humidity areas and offshore





Characteristic polynomial

5th degree polynomial

Y = A0 + A1*x + A2*x2 + A3*x3 + A4*x4 + A5*x5

A0 = 1.97800E + 02

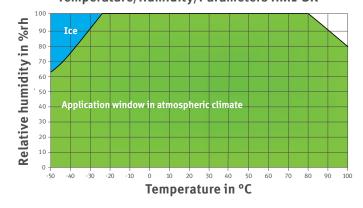
A1 = 6.55390E-01

A2 = -9.47800E-03

A3 = 1.56000E-04

A4 = -1.18900E-06A5 = 3.48430E-09

Temperature/Humidity/Parameters HM1-SK



Technical Data

Capacity	220 pF ±50 pF
Humidity operating range	0100 %rh
Temperature operating	-5080 °C
Accuracy at 23°C at optimal characteristic curve	±1.0 rh
Hysteresis (4 hours each at 15 %rh - 90 %rh - 15 %rh)	<0.5 %rh
Response time	<15 seconds (t ₆₃ , 23 °C and 1 m/sec. wind speed)
Long-term stability	<1 %rh / year
Uncompensated temperature deviation	Approximately -0.15 %rh / °C between 3090 %rh
Frequency range	10100 kHz
Max. Voltage	±35 VDC

