



## Humidity Measurement: Generell overview

### Available Features:

- **Measurable Humidity**  
between 0 to 100%RH
- **Harsh Environment** compatibility by filter option
- **Performance:** accuracy up to  $\pm 2\%$  RH available
- **Variety of different packaging styles available**
- **Technology:** The sensors are based on a humidity sensitive capacitor.
- **Combination Sensors available** with
  - Humidity operating range: 0 to 100%RH
  - Temperature operating range: -40 to +125°C
  - Pressure operating range: 10 to 2000mBar

### Product Types:

#### Humidity sensor components:



- Humidity and Temperature sensing modules
- filter option available
- Compact DFN package size (mm) 2.5x2.5x0.9
- Power supplies between 1.5 and 5.5V
- Wide operating ranges: - 0 to 100%RH  
- 40 to 125°C
- High accuracy: up to  $\pm 2\%$  RH  
up to  $\pm 0.2^\circ\text{C}$

Applications: HVACR Systems, Medical CPAP, Refrigerators, Security cameras Washer/Dryer

#### Humidity and temperature (NTC) probes



	HM1500LF	HM1520LF	HTM2500LF
Measuring	Humidity	✓	✓
	Temperature		✓
Operating conditions	Humidity	0 to 100%RH	
	Temperature	-40 to +60°C	-40 to +85°C
Calibration	Up to $\pm 3\%$ RH	Up to $\pm 3\%$ RH	Up to $\pm 3\%$ RH
Unique Features	High reliability and long term stability	designed for low Humidity applications	Hermetic Housing

Applications: Medical, cabinets, process controll, industrial, Hygrostat, data loggers

#### Humidity and temperature (NTC) mini Modules



Applications: Humidity and temperature Plug and Play transducer for OEM demanding applications in HVACR, home appliance, printer and medical

#### Humidity/Temperature/Pressure Moduls:



Applications: Smart phones and Tablet PCs, HVAC applications, Weather stations, Printers, Home appliance and humidifiers, Low power engine and fuel cell monitoring