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# Flexibility Offered for OEM Applications by Miniature Humidity and Temperature Transmitter

With a focus on OEM applications, Vaisala INTERCAP® Humidity and Temperature Probe HMP50 is a worthy successor to Vaisala's HUMITTER® introduced more than ten years ago. Like the HUMITTER®, the HMP50 is a miniature relative humidity and temperature probe suitable for a variety of applications such as data loggers, HVAC and applications where the user wants to integrate humidity measurement as a functional part of his own instrumentation.

## Rugged and easy to install

The input/output cable is connected to Vaisala INTERCAP® Humidity and Temperature Probe HMP50 body with a standard M8 connector. This connector structure makes installing the probe very easy, enables supplying the probe with different cable lengths and enables the customer to use his own specific cable, if desired. The small diameter of the probe, only 12 mm, makes it possible to install the probe through tight channels and feed throughs. A durable metal enclosure provides ruggedness. For sensor protection, there are three alternatives, a plain grid for the fastest response, a membrane filter for added protection and a stainless steel sintered filter to provide the best mechanical protection for the sensors.



## Provides the signal you want

Vaisala INTERCAP® Humidity and Temperature Probe HMP50 provides either relative humidity only or, relative humidity and temperature measuring versions. When ordering HMP50, the customer can select the output range from three different voltage

range alternatives. When measuring relative humidity only, a current interface output is also available. This special output enables the user to easily build a 4...20 mA looped power interface with just a few external components. The power consumption of HMP50 is very low making the device particularly suitable for battery-powered applications.

## Interchangeable sensor makes re-calibration easy

Like its predecessor, the HMP50 is based on the Vaisala INTERCAP® technology - the first truly interchangeable humidity sensor. This makes servicing the probe simple, in the event that a re-adjustment of the humidity signal is needed, this can be done just by replacing the sensor element with a new one.

## Flexibility in OEM applications

With the options that the customer can choose when ordering the probe, the new Vaisala INTERCAP® Humidity and Temperature Probe HMP50 brings added flexibility in applications where a miniature humidity transmitter is needed. Small is not only beautiful but easy. ●