

# HMP50 Miniature Humidity and Temperature Probe for OEM Applications



*The HMP50 features good measurement performance in a small, rugged and simple probe.*

## Features/Benefits

- Miniature-size humidity transmitter
- Very low power consumption
- Short power-up time
- Measurement range 0 to 98 %RH and  $-10$  to  $+60$  °C ( $+14$  to  $+140$  °F)
- Cable detachable with standard M8 quick connector
- Rugged metal housing
- Interchangeable Vaisala INTERCAP<sup>®</sup> Sensor
- Optional outputs and cable lengths

The Vaisala INTERCAP<sup>®</sup> Humidity and Temperature Probe HMP50 is a simple and cost effective humidity transmitter suitable for volume applications or integration into other manufacturers'

The HMP50 is ideal for a variety of applications such as:

- glove boxes
- greenhouses
- fermentation chambers
- data loggers

### Installation flexibility

The probe cable has a screw-on quick connector for ease of installation. Two different cable lengths are available, and customers can also use any M8 series cable of their choice.

### Low current consumption

Because of its very low current consumption and short power-up time, the HMP50 is well suitable for battery-powered applications.

### Several outputs available

The temperature measurement is optional. Three standard voltage outputs are available. For the RH-only model, a current interface output is available. It can be used to build a 4 to 20 mA loop-powered current output with external components (the optional current converter kit)

### Rugged design

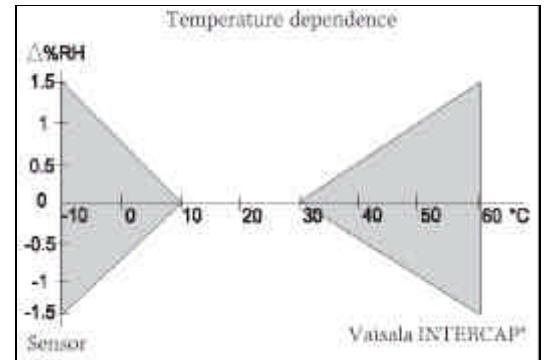
The aluminum body of the HMP50 is IP65-classified. The sensor is protected by a membrane filter and plastic grid, or optionally a stainless steel filter..

### No need for recalibration

The Vaisala INTERCAP<sup>®</sup> Sensor is interchangeable. Instead of recalibrating the instrument, the user can easily replace the sensor.

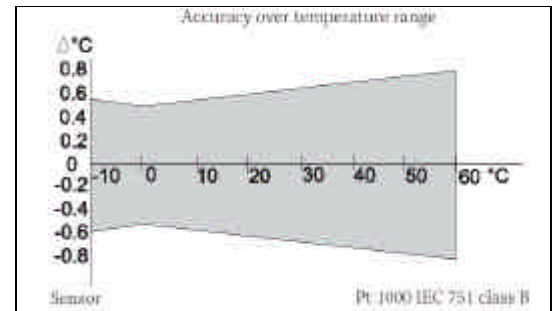
## Relative Humidity Measurement

Measurement range: 0 to 98 % RH  
 Accuracy at +20 °C (+68 °F)  
     0 to 90 % RH                      ± 3 % RH  
     90 to 98 % RH                     ± 5 % RH  
 Sensor: Vaisala INTERCAP®



## Temperature Measurement

Measurement range: -10 to +60 °C (+14 ... +140°F)  
 Accuracy +20 °C (+68 °F) ± 0.6 °C (± 1.1 °F)  
 Sensor: Pt 1000 IEC 751 class B

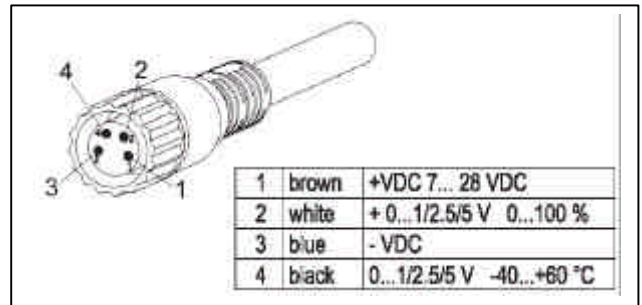


## Operating environment

Temperature:  
 operation: -10 to +60 °C (+14 to +140 °F)  
 storage: -40 to +60 °C (-40 to +140 °F)  
 Relative humidity: 0 to 100 % RH

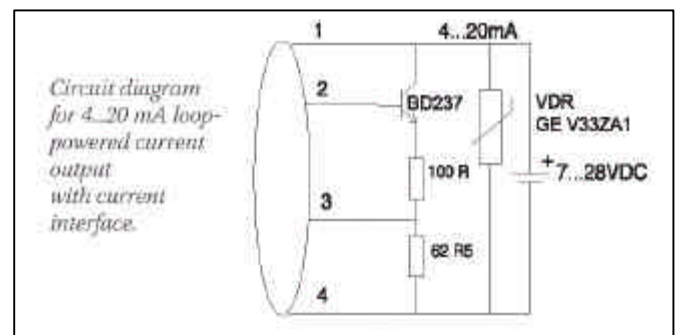
## Inputs and outputs

Operating voltage: 7 to 28 VDC  
 Power consumption: 2 mA  
 Outputs:  
     0 to 1 VDC  
     0 to 2.5 VDC  
     0 to 5 VDC



## Mechanics

Cable lengths: 0.3 m and 3 m  
 Weight: 25 g (with a 0.3 m cable)  
 Material:  
     \* body: chrome coated aluminum  
     \* grid/filter: chrome coated ABS plastic  
     \* cable: polyurethane  
 Housing classification: IP65



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