

## Humidity Sensor

0 – 100% RH, Output 4 – 20 mA.

**Type:**  
**KPH 101**

Sheet No.  
20-10 V2.1

7700-E010818V2.1



### Application:

For sensing humidity.

Type KPH 101 is used for controlling the humidity in air-conditioning, ventilating systems/plants, refrigeration systems/plants and reefer units.

Type KPH 101 consists of a capacitive element with matching signal Amplifier mounted in a stainless-steel tube.

Type KPH 101 is calibrated in 3-5 spots to achieve a high degree of accuracy.

### Properties:

- 0-100% RH
- 4-20 mA
- 9VDC - 28 VDC



### MECHANICAL SPECIFICATIONS:

**Protective tube:** -----  
Wnr.1.4404 (AISI316L)  
Special

**Sensor diameter:** -----  
Ø15mm  
Special

**Process attachment:** -----  
Flange  
Adjustable coupling 1/2" BSP

**Protection head:** -----  
B (aluminum, enameled, low cap, IP54)  
CE (aluminum, enameled, IP68)  
Plug M12  
Special.

Working Temperature -40°C / +60°C

Storage Temperature -40°C / +70°C

### ELECTRICAL SPECIFICATIONS

Supply voltage: 9VDC - 28 VDC

Accuracy at 20°C +/- 3% RH (10-90% RH)

Sensor protection: Teflon membrane filter.

----**Cable (pre-mounted):**  
SS (Silicone-Silicone) max. 180°C  
SBS (Silicone-Inner Braided-Silicone) max. 180°C  
TBT (Teflon-Inner Braided-Teflon) max. 250°C  
None

----**Cable length [m]:**

Link for further information: [Pt100 Tolerance](#)