



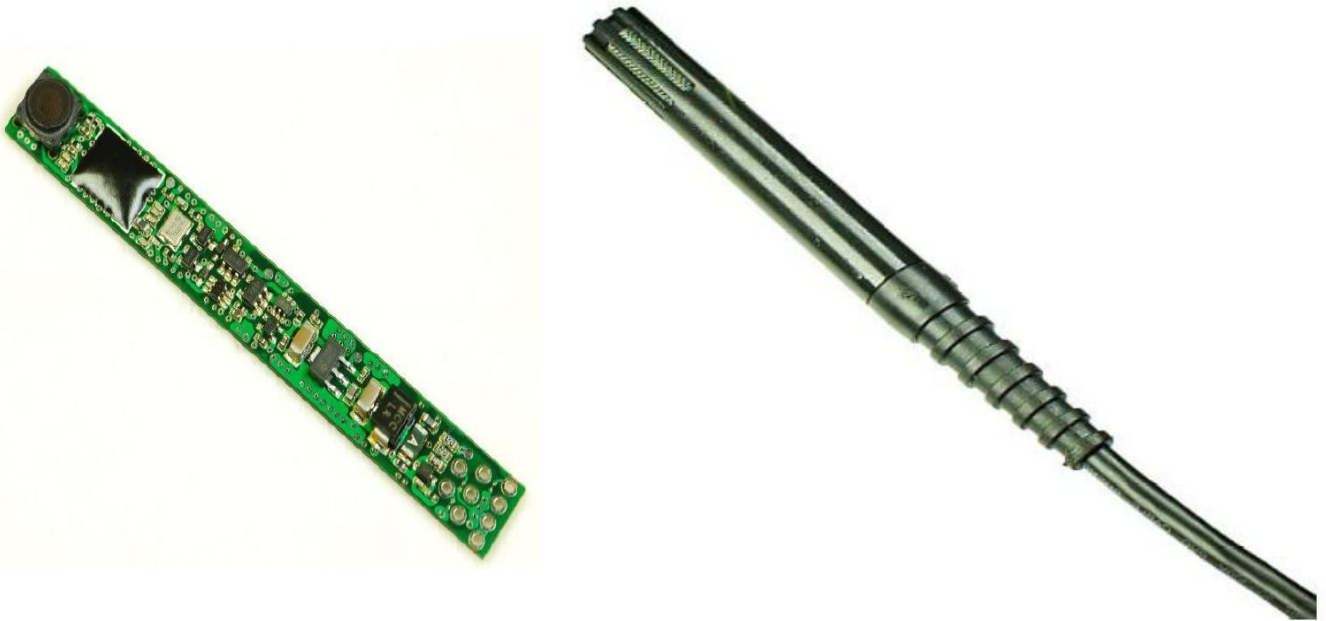
## PEAK ENVIRONMENTAL MONITORING

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## SDI-12 Air Humidity & Temperature Sensor Board



The TBSHT01 is an air humidity and temperature sensor with SDI-12 interface. The sensor uses a single chip sensor element which measures both temperature and air humidity.

Each sensor chip is individually factory-calibrated. The sensor chip is protected with a PBT filter cap carrying a PTFE membrane with 1.5 $\mu$ m pore size.

A fine grid nylon mesh offers additional dust protection.

Besides measuring relative air humidity and temperature, the sensor also calculates absolute air humidity, dew point, frost point and estimated cloud height.

The sensor including bend protection has a length of 115mm and a diameter of 12mm.

### Features

- ‡ Air humidity and temperature sensor
- ‡ SDI-12 Interface
- ‡ Temperature resolution: 0.01°C
- ‡ Temperature accuracy tolerance: +5°C to + 60°C:  
p.  $\pm 0.2^\circ\text{C}$ , max.  $\pm 0.4^\circ\text{C}$  -40°C to +5°C: max.  $\pm 1^\circ\text{C}$   
+60°C to +85°C: max.  $\pm 0.75^\circ\text{C}$
- ‡ Air humidity resolution: 0.04% RH
- ‡ Air humidity accuracy tolerance: 10% to 90%: typ.  
 $\pm 1.8\% \text{RH}$ , max.  $\pm 2\% \text{RH}$  0% to 10%: max.  $\pm 4\% \text{RH}$   
90% to 100%: max.  $\pm 4\% \text{RH}$
- ‡ SDI-12 Standard V1.3
- ‡ Plug and Play
- ‡ 6 - 16V supply voltage
- ‡ Housing: 115 mm,  $\varnothing$  12 mm
- ‡ Operating Temperature Range:  
- 40°C ... + 85°C
- ‡ Excellent price-performance ratio