## THERMO HYGROMETER THS

The THS thermo hygrometer is a fully electronic sensor, composed of both a thermometer and a hygrometer for measuring temperature and air humidity. The monitoring of these two parameters helps identify liable risks, associated for example with drought, with the formation of avalanches, and with the occurrence of certain atmospheric phenomena.

Particular attention has been paid to the containment structure, specially designed to avoid any external interference on the measurement of the actual temperature and humidity.

## **TECHNOLOGY AND OPERATING**

The two sensors that make up the meter are respectively a PT100 class A thermometer of superior quality and a hygrometer whose sensitive element is a capacitor with a thin film polymer dielectrics, with an electric capacity that varies in proportion to the relative humidity.

The containment structure, which totally changed compared to previous THS, is made up of 6 ABS dishes. It is designed to protect the sensor from wearing, caused by solar radiation, and to grant adequate ventilation, so that the detection is not distorted by overheating of the components. The low surface protection is painted black to improve the accuracy of the sensor in environments with light reflecting from below, such as in snowy conditions.













## TECHNICAL SPECIFICATION HYGROMETERS

Measurement range: 0 to 100 % RH

Accuracy: ± 1.5% from 0 to 100% RH

• Working temperature: -50 to +100 ° C

Communication interface: analogue 0-1 V

## SHIELDED AIR THERMOMETER

Sensing element: PT100 1/3 Din Class A

Measurement range: -50 to +100 °C

Accuracy at 23°C: ±0.2°C

Output: direct PT100



