

THERMO-HYGROMETER TU20

The TU20 thermo-hygrometer is a fully electronic sensor built by a thermometer and a hygrometer, to measure both air temperature and humidity.

The knowledge of these two parameters allows to identify potential risks connected, for example, with drought, formation of avalanches or particular atmospheric occurrences.

The sensor is also available in a screened version, equipped only with thermometer (Ta20).

TECNOLOGY AND FUNCTIONING

The two sensors that form the thermo-hygrometer are respectively a PT100 class A thermometer and a hygrometer, whose sensitive element is a condenser with a tiny layer polymeric dielectric, whose dielectric capacity varies as a function of relative humidity.

The case is designed to protect the sensor from degradation produced by solar radiation and to grant adequate ventilation, essential to avoid distortion of measurements due to overheating.



TECHNICAL SPECIFICATIONS

THERMO-HYGROMETER TU20

- Size: 280 (∅)x250 mm
- Weight: 1,2 Kg

HYGROMETER

- Measurement range: 0 ÷ 100% U.R.
- Accuracy at 25 °C: ± 2% between 0 and 100% of U.R.
- Working temperature: -20 ÷ +50 °C

SHIELDED AIR THERMOMETER

- Sensitive element: PT100 1/3 Din
- Measurement range: -40 ÷ +60 °C
- Sensitiveness: 0.02 °C
- Accuracy: 0.1 °C at 0 °C, 0.20 °C on the whole scale ($0.1 + 0.0017 | t |$) °C
- Ambient radiation influence: < 0.8 °C



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