

TUSensDB

Thermohygrometer



 **dualBASE**[®]
decoding the environment



Hydrology



Meteorology



Agrometeorology



Sun



Wind



TUSensDB

Temperature and relative humidity sensor



SPECIFICATIONS

Operating Range

Temperature: -40 to 80 °C
Humidity: 0 to 100% UR

Resolution

Temperature: 0,01 °C
Humidity: 0,01% UR

Maximum accuracy⁽¹⁾

Temperature:

± 0,1 °C @ 25 °C
± 0,2 °C @ 5 to 40 °C
± 0,3 °C @ -40 to 80 °C

Humidity @ 25 °C:

± 1,8% @ 10 to 90% UR
± 3% @ 0 to 100% UR

Maximum response time (tau 63%)

Temperature: 10 seconds
Humidity: 20 seconds

Long-Term Stability

Temperature: < 0,03 °C/year
Humidity: < 0,25% UR/year

Output signal

SDI-12

Supply Voltage

10 to 36 Vcc

Consumption

1 mA - standy-by
4 mA - in measurement (100 ms)

Cable Length⁽²⁾

3 meters (standard)

Protection

IP67 (except the sensor)

APPLICATIONS



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OVERVIEW

The **TUSensDB** measures the temperature and relative humidity of the air with SDI-12 digital output signal. It grants stability and reliability of the collected data with low power consumption.

PRODUCT DETAILS

- Sintered polymer filter;
- Body in PTFE (Teflon[®]) which guarantees low thermal inertia;
- Protection of the removable sensor;
- Polyurethane cable with UV filter and Kevlar;
- Can be supplied with thermometer shield for outdoor use (STH-01).

NOTE: 1 - Range factor k=2 to a confidence level of 95%; 2 - Can be supplied with other cable sizes.

- **TUSensDB-E:** Available in special versions. To order please contact us.



Features may change without prior notice. Mar/2019

MANUFACTURER



Manufacturer: Dualbase Tecnologia Eletrônica LTDA.
Brand: Dualbase
Model: TUSensDB
Type: Thermohygrometer

DIMENSIONS



REPRESENTATIVE