

Humidity Sensor Module HSM 100

The humidity sensor module HSM 100 extends the functionality of STM 33x / STM 330C / STM 33xU temperature sensor modules.

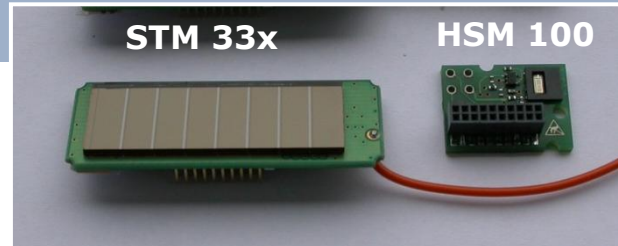
Functional Principle

HSM 100 contains an internal calibrated humidity sensor. It can be plugged onto members of the STM 33x module family via a 20 pin connector. The sensor signal is read via the ADIO3 input of STM 33x.

In order to be able to read the sensor signal, STM 33x has to be configured to an EEP supporting humidity. This can be done via Dolphin Studio.

Features Overview

Humidity sensor	measurement range 0%-100% r.h. resolution 0.4% r.h. accuracy typ. $\pm 5\%$ r.h. between 30%-70% r.h. and 0-40°C
Power supply	via SWPWR pin from STM 33x / STM 330C / STM 33xU
Module dimensions	18 x 13 mm
Operating temperature	-20 up to +60 °C



Type
HSM 100

Ordering Code
S3095-D100



Please ensure sufficient ventilation of air inside the housing. Otherwise the measurement will not represent ambient humidity.



Please avoid any material within 2mm distance from the 7mm x 7mm area depicted in the figure below (in plane as well as above and below the PCB). The measurement might be influenced by detuning the capacitive sensor.

