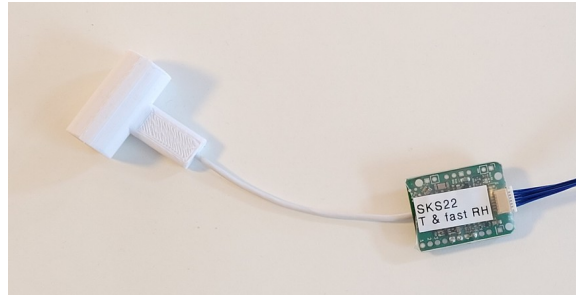


SKS22 Datasheet

Temperature and fast-response humidity sensor



SKS22 is a temperature and relative humidity sensor with fast response time, designed for UAVs. The sensor element is protected by a plastic housing.

Sampling frequency	Max 10 Hz, configurable 1 ~ 10 Hz.
Power consumption	16 mA average at 10 Hz (with active LED)
Communication	Sparvio SSP
Attachment	-
Size	Circuit board: 34 x 26 mm Cable ca 80 mm Radiation shield: 35 mm long, ID 14 mm, OD 18 mm
Weight	10 gram without cable

Parameters	Temperature	Relative Humidity
Measurement Principle	PT1000	Capacitive polymer humidity sensor
Measurement Range	-90 – +50 °C	0 – 100 %RH, non-condensing conditions
Absolute accuracy	0.5 °C in range -80 °C to 0 °C 0.2 °C in range 0 °C to +50 °C	±3% RH at +23 °C (0 % RH to 90 % RH)
Resolution	0.01 °C	0.01 %RH
Response Time	< 2 sec	< 0.5 sec at 23 °C

LED signals

On power-up, the LED cycles through red – green – blue.
The LED will then blink every time sampling is done.

Red: A hardware error prevents either T or RH from being measured.

Yellow: A valid measurement was done, but can't be reported.

Green: Measurement is valid and reported.

Sparvio background

The Sparvio system provides a modular, plug-and-play solution for measuring various quantities for UAVs, other environmental studies, lab experiments and education. The system is designed to start immediate measurements without any further integration.

SKS2 is designed and manufactured in Sweden by Sparv Embedded AB.