ENS210

High performance digital humidity and temperature sensor

- Ultra-fast, -accurate & low power
- Wide operating voltage and sensing range
- Small footprint

ScioSense

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High performance digital humidity and temperature sensor

The ENS210 is a high performance digital output sensor which monolithically integrates a relative humidity and a temperature sensor, ideally suited for space-, power- and time critical designs. In combination with its wide operating voltage range the ENS210 addresses a great variety of consumer, medical and industrial applications while its ultra-low standby power consumption facilitates long battery service life. The device comes in a QFN4 package and includes an I²C slave interface for host communication. Moreover, the ENS210 provides digital, pre-calibrated outputs (Kelvin and % relative humidity) and works well with ScioSense's gas sensor portfolio.

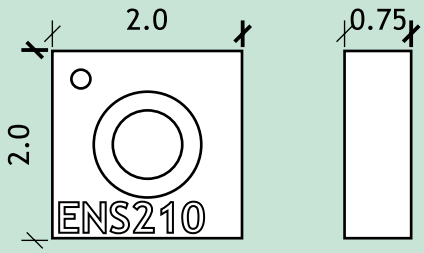
Features

- Premium accuracies
- Ultra-low power
- Small footprint
- Fast response
- Low drift

Properties

- Operating range: –40 to 100°C / 0 to 100%RH / 1.71 to 3.6V
- Accuracies: 0.2°C / 2.2%RH
- Response times: T: 1s / RH: 3s
- Power: Standby: 40nA / Active: 6.6µA

Dimensions



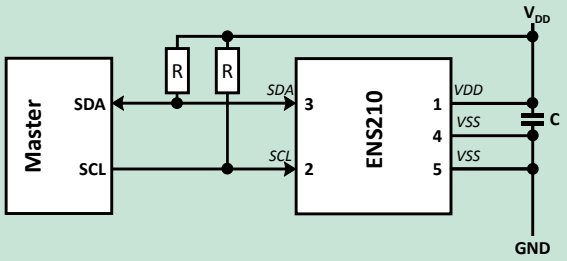
Benefits

- High versatility and freedom of design with low peripheral BOM
- Ideal for demanding space-, power- and time-critical designs
- Reliable, long-term performance

Applications

- HVAC, building automation, smart home
- Appliances, air purifiers, cooker hoods
- Medical and life science
- Mobiles, wearables, (I)IoT devices

Application circuit



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