A+ RH SENSOR MODULE

- Easy and fast installation, no wiring, RF technology
- Capacitive button for manual control
- Battery powered

Application

The sensor module is a device to measure air quality in a residential environment. The typical application is to measure indoor humidity in wet rooms and send this via RF to a Genvex ventilation unit.

The ventilation unit can react on the information from the sensor accordingly.

With the capacitive button a manual control function can be selected.

THE AIR WE BREATHE

Genvex

Technical details

Material
Casing front and back: ABS plastics

Size
100 x 100 x 30 mm (b x h x d)

Power supply
Battery: 2x AA minimal 3 years

Communication
Honeywell 868 MHz RF protocol.
Multipoint bi directional communication

Environmental conditions
Temperature: - in operation: 4…40°C.
- transportation: -20…55°C.
Relative humidity battery powered: 5..100% condensing

User Interface

Capacitive button:	1
4 LED's :	Green
bicolor LED:	Red/Green

Mounting
On wall (over a flush mounted box)

Certifications
ETSI EN 300 220-1:
- Electromagnetic compatibility and Radio spectrum Matters (ERM);
- Short Range Devices (SRD);
- Radio equipment to be used in the 25 MHz to 1000 MHz frequency range with power levels ranging up to 500 mW;
- Part 1: Technical characteristics and test methods
- For a class 1F application

EN61000-6-3:2007 emission standard, residential, commercial and light industry.

EN61000-6-1:2007 immunity standard, residential, commercial and light industry.

NEN-EN 60730-1:2007
"Automatic electrical controls for household and similar use
Part 1: general requirements".

RohS and WEEE compliant

Sensor specifications

Humidity

Response time	5 s 1/e in slow moving air
Long-term stability	1.2 %RH for five years; 0.25 %RH each year
Operating hum. Range	0 %RH to 100 %RH
Accuracy	±3.5 %RH ±3 %RH

Typical application

As a battery powered humidity sensor in the kitchen or bathroom
- It measures the relative humidity and sends out a signal via RF to the Genvex ventilation unit to speed up (or slow down) to a default defined ventilation speed.
- Capacitive button will be used to bind RF and is used formanual control.
- LED's

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