

RFF

Room humidity sensor



Summary

The RFF is a relative humidity sensor for universal use in the HVAC sector.

Applications

- HVAC systems – room humidity measuring

Functions

The sensor measures relative humidity of air and other non-aggressive gases. It is used in refrigeration, air conditioning and clean room technology as well as in residential and public buildings.

The sensors are intended for operating in a normal and chemically non-aggressive environment. They do not need any servicing or maintenance and can be mounted in any position. For humidity, capacitive sensing element is used.

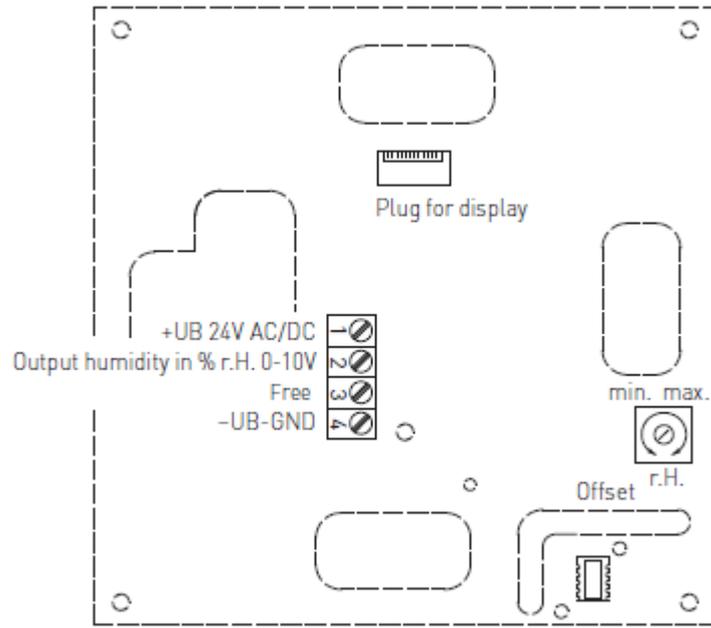
The sensors are mounted with 2 or 4 screws on a flush-mounted junction box with 55 mm in diameter.

Technical data

Power supply	24 V AC +/- 20 %, 15...36 V +/-10% DC for U 15...36V DC +/- 10 % for I
Output	0...10 V or 4...20 mA
Operating range	0...95% rH
Protection type	IP30 (according to EN 60529)
Protection class	III (according to EN 60730)
Deviation	±3% rH (20...80% at 20°C), otherwise ±5%
Terminals	screw terminals for wires 0,14 – 1,5 mm ²
Cover	ABS, RAL9010, optional stainless steel
Long-term stability	±1% per year
Dimensions	see below
Optional	two-line display with illumination, 36x15 mm

Terminals

RFF-U



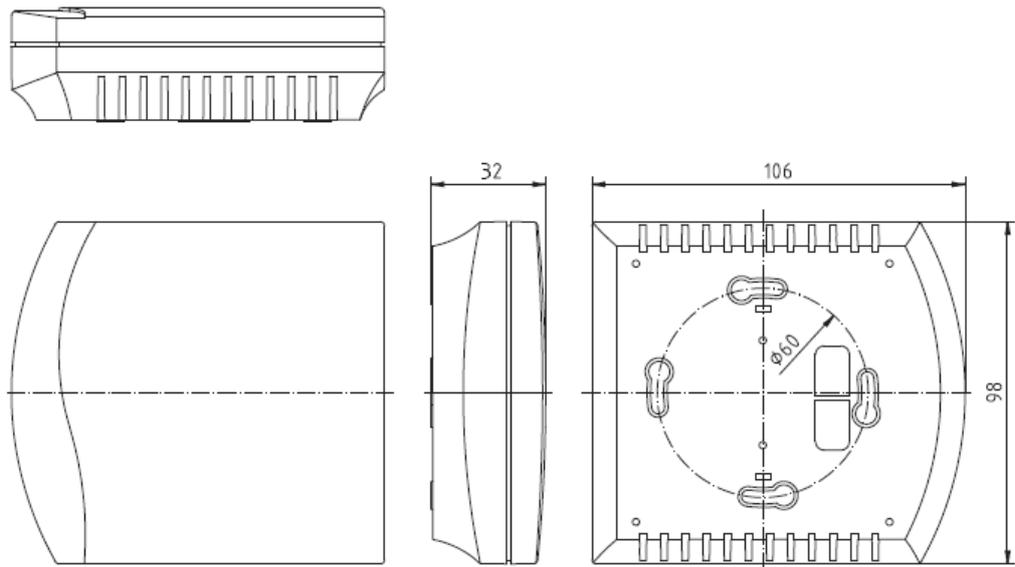
Offset humidity : $\pm 10\%$ r.H.

RFF-I

- | | |
|---|-------------------------------------|
| 1 | +UB 24V DC |
| 2 | Output humidity in % r.H. 4-20mA |
| 3 | Free |
| 4 | -UB-GND (optional for backlighting) |

Dimensions

All dimensions in *mm*.



08/2013 Subject to technical changes.