Humidity sensor 1000554

Instruction sheet

10/15 WH

1. Safety instructions

In order to avoid permanent damage to the built-in semiconductor sensor, strictly observe the following instructions:

- Never exceed the maximum operating temperature of +85°C.
- Do not allow the semiconductor sensor to come into contact with water. Do not expose the semiconductor sensor to direct sunlight.

The humidity sensor is not suited for safety applications.

2. Description

The humidity sensor is used for measuring relative humidity (RH) and is used in conjunction with the 3B NET*log*™ interface (U11300).

Once connected, the sensor is automatically detected by the interface.

3. Scope of delivery

1 Humidity sensor

1 8-pin mini DIN connecting cable, length: 60 cm

4. Technical data

Measuring range:	0 to 95%, non-condensing
Sensor type:	Capacitive semiconductor sensor
Relation between output value and relative humidity:	Linear
Accuracy:	3% of the relative humidity (RH) and 1% in the range from 0% to 95% 5% of the relative humidity (RH) and 1% in the range from 0% to 5%
Resolution:	0.1%
Response time:	15 s
Maximum operating temperature:	85°C

5. Operation

- Use the mini DIN connection cable to connect the humidity sensor to the 3B NET*log*™ unit.
- Place the humidity sensor in the test environment.
- After the relevant response time has elapsed, read the value for humidity indicated on the 3B NET*log*™ display.

Note: slight air movement in the vicinity of the sensor may reduce the response time.

6. Applications

Meteorology

Monitoring greenhouses and terrariums

Refrigeration

Dehumidification

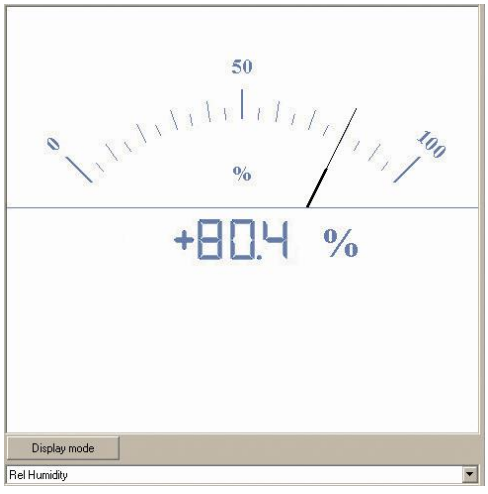
6.1 Required apparatus:

1 3B NET*log*™ @ 230 V	1000540
or	
1 3B NET*log*™ @ 115 V	1000539
1 Humidity sensor	1000554

Additionally recommended for the recording and evaluation of readings on a computer:

1 3B NET*lab*™	1000544

6.2 Example:



Screen display of relative humidity