HUMIDITY SENSORS

RHM.2

RHO.2

PRODUCT APPLICATION MANUAL

Fancom®
forward thinking

Introduction

The Fancom greenline relative humidity sensors are used to measure humidity in poultry and pig houses. The sensor is also available for measure the outside humidity. In combination with our other sensors (temperature and CO2), they provide a reliable control for your pigs and poultry. The electronic relative humidity sensor is available in two versions:

- The RHM.2 sensor for the measuring the inside relative humidity.
- The RHO.2 sensor for the measuring the outside relative humidity.

The greenline relative humidity sensors can be used with Aura, Lumina and FSU controllers to use for controlling humidification or dehumidification.

Type tempearture sensors

Description	Art. nr.	Application	Cable length	Controls
RHM.2	5220030	Inside humidity sensor	10 meter	Aura, Lumina, FSU
RHO.2	522035	Outside humidity sensor	10 meter	Aura, Lumina, FSU

Features

- The measurement is virtually impervious to interaction with other gases, such as ammonia, CO2 and dust.
- The sensor is provided with a plug connection so that it can be easily removed during cleaning of the house.
- The sensor is also provided with 2 protection caps to protect the plugs during disassembly of the sensor.
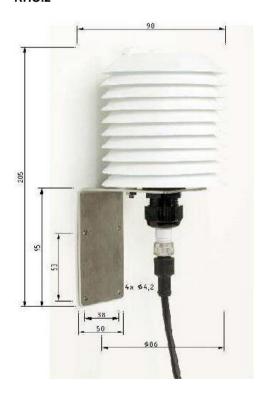
Wiring

RHM.2 + RHO.2 — 3 x 0,8 mm (0,5 mm^2) →

Dimensions

RHM.2

RHO.2

Technical specifications

RHM.2

Housing	
Polycarbonate housing	IP65
Dimensions (o×h)	170x13mm
Weight (unpacked)	0.444kg
Length cable	10 meter
Type cable	PVC, 4x0,34mm^2
Connector	M12 plug
Power	
Operating voltage	11 - 29 Vdc
Current	1.4mA (24 Vdc)
Measurement	
Output	0 - 5 Vdc (linear)
Range	0 - 100% (linear)
Accuracy	+/- 3% (10-90%) at -5°C to +50°C +/- 5% (<10 RH >90%) at -5°C to +50°C
Ambient climate	
Operating temperature range	-5°C to +50°C
Storage temperature range	-5°C to +50°C

RHO.2

Housing	
Polycarbonate housing	IP65
Dimensions (o×h)	205x98mm
Weight (unpacked)	0.738kg
Length cable	10 meter
Type cable	PVC, 4x0,34mm^2
Connector	M12 plug
Power	
Operating voltage	11 - 29 Vdc
Current	1.4mA (24 Vdc)
Measurement	
Output	0 - 5 Vdc (linear)
Range	0 - 100% (linear)
Accuracy	+/- 3% (10-90%) at -5°C to +50°C +/- 5% (<10 RH >90%) at -5°C to +50°C
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