Wireless temperature and relative humidity sensor with solar-powered fan (DLTc-vent)



- Accurate climate measurement unaffected by solar radiation
- Solar-powered fan with no battery consumption
- White housing for minimal heat generation
- Replaceable air filter keeps insects out

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DLTc-vent-ewinb





Description

DLTc-vent

The Wireless Value DLTC-vent measures temperature and relative humidity in locations in the greenhouse where direct solar radiation could otherwise distort the reading. Standard, non-ventilated climate sensors register a higher temperature than the actual air temperature when exposed to radiation. The DLTC-vent prevents this through three measures that work together: the housing, ventilation and filtering.

The white housing generates less heat than darker versions. A fan, powered by an integrated solar panel, continuously creates an airflow past the sensor element so that warming air is immediately carried away. Because the fan runs on solar power, it has no effect on the sensor's battery life. The air tunnel simply clicks onto the housing; the underside has space for a replaceable filter that keeps insects out.

- Memory for storing 10,000 measurements
- Adjustable measurement interval
- Solar-powered fan with no additional battery consumption
- Replaceable air filter against insects
- Existing system easily expandable with additional sensors

- Battery replaceable by user
- Unique network ID to prevent interference with other wireless systems

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Specifications

General

Battery type	AA
Colour	white
Battery life	Over 6 years
Model	Wireless ventilated climate sensor with solar panel and fan
Type	Temperature, humidity

Measurement range

Temperature	-20 °C to +80 °C
Relative humidity	0% - 100%
Operating limits	-20 °C to +80 °C
Temperature (range)	-20 °C to +80 °C (see operating limits)
Signal range	1,600 metres (line of sight)

Measurement accuracy

Temperature	± 0.3°C from -20°C to 80°C
Relative humidity	± 3% RH from 0 to 80% RH; otherwise ± 3.5% RH

Measurement resolution

Temperature	0.1
Relative humidity	0.1

Legislation and standards

RED (Radio Equipment Directive)	yes
CE	yes
EN 300 220	yes

Technical specifications

Battery voltage	3.6 V
IP rating	IP65
Memory	10,000 measurements

Measurement interval	Adjustable between 1 second and 255 minutes, default 2 minutes

Dimensions

Housing dimensions	105 (l) x 70 (w) x 32 (h) mm
Weight	67 g (excluding battery)