



*Bio Instruments S.R.L.*

SENSORS AND SYSTEMS  
FOR MONITORING GROWING PLANTS

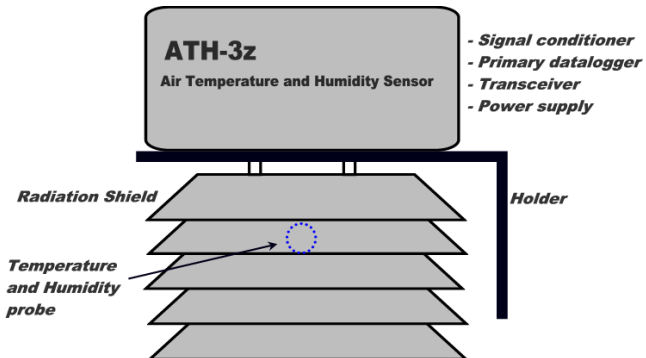
**ATH-3z**  
*Wireless*  
*Air Temperature and Humidity Sensor*



## Description

The ATH-3z wireless sensor is an accurate tool for monitoring air temperature and relative humidity (RH) in the open. A micro-processor also calculates vapor pressure deficit and dew point temperature from the RH and temperature measurements. The ATH-3z represents average values of measurements made 10 times evenly during the measurement time interval. For instance, at 30 min time interval, the ATH-3z takes measurements every 3 minutes and, then, calculates and records the average of those ten values measured.

The miniature protected air temperature and humidity probe is placed in a radiation shield.



## **Communication**

The ATH-3z communicates over the radio 2.4 GHz channel with a network data logging unit. Activation of the sensor and measurement settings are described in the Quick Start Guide of the data logging unit (PM-11z Phytomonitor or PC Phyto-Logger)

## **Power**

The ATH-3z is powered by 3 AA Alkaline batteries.

## **Specifications**

### Temperature

Range: -40 to 60 °C

Resolution: 0.1 °C

Accuracy:  $\pm 0.5$  (5 to 40 °C)

### Humidity

Range: 0 to 100% RH

Resolution: 0.1 %RH

Accuracy:  $\pm 2$  %RH (5 to 90%RH)

$\pm 3$  %RH (above 90%RH)

Power Requirements: 4.5 Vdc (3xAA Alkaline batteries)

## **Customer Support**

If you ever need assistance with your equipment, or if you just have questions or feedback, please e-mail at [support@phyto-sensor.com](mailto:support@phyto-sensor.com). Please include as part of your message your name, address, phone, and fax number along with a description of your problem.



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