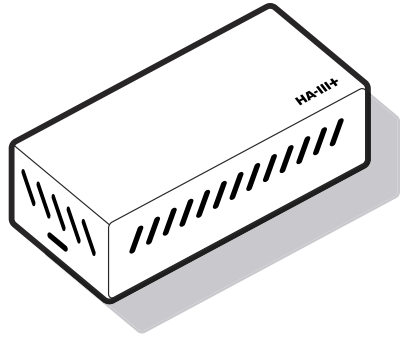




WINLAND
ELECTRONICS, INC.

HUMID•ALERT

Electronic Humidity Sensor



CONTENTS

This package contains:

- 1 HA-III+
- 2 Mounting Screws and 2 anchors
- 1 Installation/Operating Instructions Guide

HA-III+

SPECIFICATIONS

Power Requirements	12 VDC @10mA
Sensing Element	Capacitive / IC
Sensing Range	5% - 95% R.H.
Accuracy	±5% (10% - 90% RH @ 77° F [25° C])
Response Time	TC < 12 minutes
Operating Temp	+32° to +152° F (0° to +50° C)
Weight	5 oz (0.14 g)
Dimensions	3.25 x 1.5 x 1" (8.2 x 3.7 x 2.5 cm)
Mounting	Surface mount
Case Material	ABS
Warranty	1 Year Limited



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General Information

The Winland HA-III+ is a sensor used for monitoring remote locations for rising or falling rates of humidity. The HA-III+ is designed and approved to be used with the EnviroAlert® family of monitoring devices including the EA800, EA400-12 and EA200-12. The HA-III+ may also be used with Winland legacy monitoring devices including the TA-2HLD, TA-3HLD, UTA-1, DTA-4 and DPM-4.

The setup of high and low limits is done through the interface on the monitoring device you are connecting to.

Important Note: HA-III+ must not be used with monitoring devices that are powered with 24V AC/DC. When used with Winland legacy monitoring devices such as UTA-1, TA-2HLD, TA-3HLD, DTA-4 or DPM-4, the monitoring devices must be set to read Fahrenheit.

Theory of Operation

The HA-III+ senses the ambient room humidity electronically using a capacitive sensing element. Humidity should be expected to vary from room to room and from one area of a room to another. Ventilation and airflow will greatly affect relative humidity.

When programming the HA-III+ sensor on the monitoring device, the initial reading you receive should be considered a base reading. **Allow at least 30 minutes of operation for sensor to stabilize prior to setting your high and low limits.** It is necessary for the temperature of the sensor to stabilize before the readings are considered accurate. The outputs of Winland's electronic monitoring devices react within seconds of a limit being exceeded. A sudden burst of humid air from a door opening or a ventilation system starting, could cause a brief change in the humidity reading. To avoid false alarms, a time delay should be programmed into the EA800, EA400-12, EA200-12, UTA-1 or TA-2HLD. **It is strongly recommended to utilize a time delay unless your application requires instant notification.**

Installation

The HA-III+ sensor should be flush mounted directly to a flat surface like a wall. The sensor should be located in an area free from drafts, heat sources, and direct sunlight. It is recommended that the sensor is mounted at a height of 4-5' (1.2-1.5 m) from the floor.

To begin installation of the HA-III+, you must first remove the cover. Do not use excessive force while removing the cover, you may crack or break the plastic housing. Grasp the HA-III+ between your thumb and index fingers along the long slotted surfaces of the sensor with the Winland logo facing you. Using a flat bladed screwdriver, insert tip of screwdriver into pry slot and **gently** pry open top cover until it swings loose from the base (See Figure 1). Remove screwdriver from pry slot, grasp cover beneath detached flange and swing to the right until cover fully detaches.

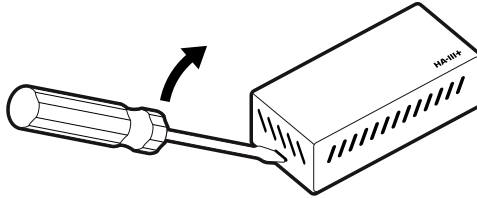


FIGURE 1

With the cover now fully removed, fasten the base of the sensor to the wall via the screw holes in the base plate using the two screws provided.

Wire the HA-III+ to your monitoring device using the following wiring scheme (See Figures 2 and 3).

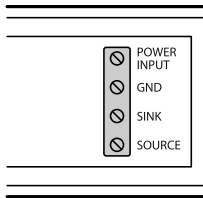


FIGURE 2

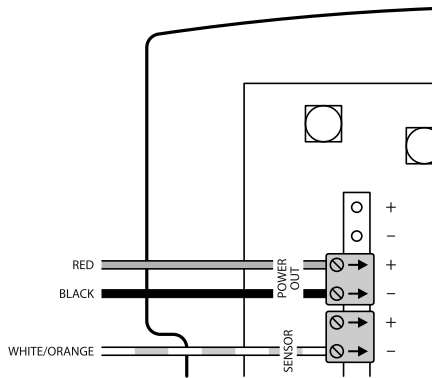


FIGURE 3

(Shows Typical Use With an EnviroAlert® Device)

- Power Input** = 12VDC Positive
- GND** = 12VDC Negative
- Sink** = Wire to either the white/brown or the white/red sensor input on the DTA-4 or DPM-4
- Source** = Wire to negative terminal on sensor input of the desired device: EA800, EA400-12, EA200-12, UTA-1, TA-2HLD, and TA-3HLD (See Figure 3)

Connection will either be made to the Sink terminal screw or the Source terminal screw, never both.

Avoid tucking excess wires under the PC board. To allow for maximum air movement, make certain that no wires surround the sensor which is located in the lower left hand corner of the PC board. Replace the cover by aligning the slots in the cover with the tabs on the base and slide the cover back toward the mounting surface until both side flanges snap into place.

WEEE Product Recovery/Recycling for EU Customers

In an effort to improve waste management in the European Union, the European Union has enacted directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE Directive). According to the WEEE Directive, Winland Electronics must take back waste electrical or electronic equipment covered under the WEEE Directive, at its cost, for all product it puts on the market after July 1, 2006. The Return Process: Contact Winland via our web site at www.winland.com and go to the WEEE link on the home page. To request additional information regarding Winland's RoHS and WEEE compliance initiative and how it might impact your business, email customerservice@winland.com.

HA-III+ Certification Info



Radio Frequency Interference Requirements: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



CE Marking and European Union Compliance: Products intended for sale within the European Union are marked with the CE Mark, which indicates compliance to applicable Directives and European Norms (EN). Amendments to these Directives or ENs are included:

Electromagnetic Compatibility Directive 89/336/EEC; RoHS Directive 2002/95/EC; WEEE Directive 2002/96/EC

Statement of Compliance

Winland Electronics, Inc. hereby declares that this device is in compliance with all the applicable Directives, 89/336/EEC, 2002/95/EC, 2002/96/EC.

Symbols on the Product or Manual Labeling



For product disposal, ensure the following:

- Do not dispose of this product as unsorted municipal waste.
- Collect this product separately.
- Use collection and return systems available to you.



WEEE Waste Electrical and Electronic Equipment
RoHS Restriction of Hazardous Substances

ONE YEAR LIMITED WARRANTY

Winland Electronics, Inc. warrants that each product of its manufacture is free from defects in material and factory workmanship, when properly installed and operated under normal conditions according to the manufacturer's instructions. Manufacturer's obligation under this warranty is limited to correcting, without charge, at its factory any part of parts thereof which shall be returned to the factory, by the original retail purchaser, transportation charges prepaid, within one year after purchase and which upon examination shall disclose to the manufacturer's satisfaction to have been originally defective. Correction of such defects by repair to, or supplying of replacements for defective parts shall constitute fulfillment of all obligations to purchaser. Repair service performed by the manufacturer after one year from date of purchase will be for a reasonable service charge. This warranty shall not apply to any of the manufacturer's products which have been subject to misuse, negligence or accident of which shall have been repaired or altered outside of the manufacturer's factory. Manufacturer shall not be liable for loss, damage, or expense directly or indirectly from the use of its product or from any other cause. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE ARE EXCLUDED, AS ARE ALL OTHER REPRESENTATIONS TO THE USER-PURCHASER, AND ALL OTHER OBLIGATIONS OR LIABILITIES, INCLUDING LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES, ON THE PART OF THE MANUFACTURER OR THE SELLER. No person, agent or dealer is authorized to give any warranties on behalf of the manufacturer nor to assume for the manufacturer any other liability in connection with any of its products.