



Wiring the AquaGuard® AG-2550E - Primary Drain Pan Water Sensor

Work Safe, READ THIS!

ATTENTION: FAILURE TO READ AND COMPLY WITH ALL WARNINGS, CAUTIONS AND INSTRUCTIONS PRIOR TO STARTING INSTALLATION MAY CAUSE PERSONAL INJURY AND/OR PROPERTY DAMAGE AND VOID WARRANTY.

STOP/READ: This device must be installed in accordance with manufacturer's instructions. This unit must be in accordance with all applicable local plumbing, drainage and electrical codes.

WARNING: Remove electrical shock hazard - DISCONNECT THE POWER SUPPLY BEFORE INSTALLING AQUAGUARD to avoid electrical shock and/or equipment damage. Do not use on circuits exceeding 24 volts to avoid damage to switch, shock or fire hazard.

CAUTION: In some situations the switch may cause the unit to rapidly cycle on and off as water level rises slowly in pan. After a brief period the unit will switch totally off. condensation drain must be serviced if this occurs.

CAUTION: In any installation where property damage and/or personal injury might result from an inoperative switch due to power outages, a back-up system(s) and or alarm should be installed.

NOTICE: The AquaGuard AG-2550E must be only installed by a licensed contractor or under the direct supervision of same. Condensation pan must be properly maintained after installation and be kept free from foreign objects, rust or other obstructions that might interfere with the proper operation of the AquaGuard device. Disconnect power to unit at main panel. Disconnect power to the low voltage thermostat circuit.

WIRING THE AG-2550E:

(To ensure proper performance of product, instructions must be followed.)

1. Ensure the power is disconnected to the HVAC unit at the main electrical panel prior to moving to step 2. For Breaking "Wall Thermostat" Power Wire (see Figure 1)
2. In HVAC Unit locate 24 VAC Power wire going to "Wall Thermostat", (Typically RED). Break/Disconnect 24 VAC Power wire going to "Wall Thermostat".

- A. Connect "RED", "Input: 24 VAC (Hot)" wire of AG-2550E to 24 VAC (Hot) secondary side of 24 VAC Transformer.
- B. Connect "PURPLE", "Normally Closed" wire of AG-2550E to Thermostat's "R" Terminal.

NOTE: "PURPLE" wire must be connected to "THERMOSTAT". Maximum capacity 24VAC/5Amp.

- C. Connect "BLACK", "Input: 24 VAC (Common)" wire of AG-2550E to 24 VAC (COMMON) secondary side of 24 VAC Transformer or Thermostat's "C" Terminal.

- D. "WHITE", "Normally Open" wire of AG-2550E must be connected to AquaGuard, AG-9100 External Alarm (see Figure 1) or Home Alarm System, or Communicating System, etc..

CAUTION: "WHITE", "Normally Open" wire maximum capacity, 24VAC/1Amp.

Note: When AG-2550E is wired correctly, the HVAC unit will shut-off upon condensate detection.

Note: AG-2550E time delay up to 60 sec ON.

Optional Wiring: For Breaking Compressor Wire

3. In HVAC Unit locate "Compressor wire going to "Wall Thermostat", typically (YELLOW). Break/Disconnect Compressor wire going to "Wall Thermostat".

- A. Connect typically "YELLOW" wire, going to "Wall Thermostat" to "RED", "Input: 24 VAC (Hot)" wire of AG-2550E.
- B. Connect "PURPLE", "Normally Closed" wire of AG-2550E to Compressor's typically "YELLOW" wire going to Compressor.

NOTE: "PURPLE" wire must be connected to COMPRESSOR "YELLOW" Wire. Maximum capacity 24VAC/5Amp.

- C. Connect "BLACK", "Input: 24 VAC (Common)" wire of AG-2550E to 24 VAC (COMMON) secondary side of 24 VAC Transformer or Thermostat's "C" Terminal.

- D. "WHITE", "Normally Open" wire of AG-2550E must be connected to AquaGuard, AG-9100 External Alarm (see Figure 1) or Home Alarm System, or Communicating System, etc..

CAUTION: "WHITE", "Normally Open" wire maximum capacity, 24VAC/1Amp.

Note: When the AG-2550E is wired correctly, (ONLY) the Compressor will shut-off upon condensate detection. Air Handler will continue to run.

NOTE: AG-2550E time delay up to 60 sec ON.

4. Test the AG-2550E Secondary Pan Sensor (At start-up check initial amperage load) while the HVAC unit is on and functioning correctly. See installation of the AG-2550E:

HVAC Installation w/ optional external alarm or accessory

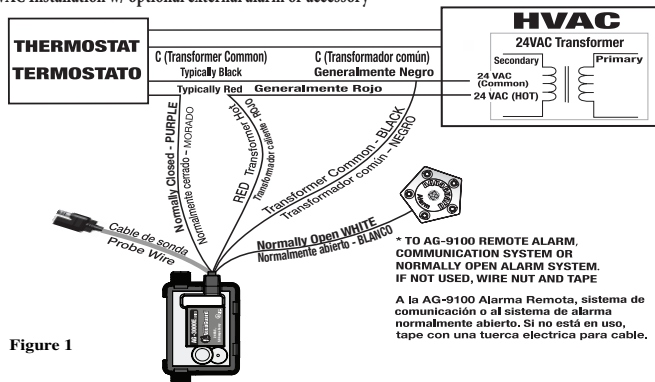


Figure 1

Installation of the AG-2550E control box:

(To ensure proper performance of product, instructions must be followed.)

1. Clean desired mounting area with included alcohol pad.
2. Using the double-sided tape provided with the AG-2550E, affix the mounting bracket in the lowest point of the pan within 25" of the secondary drain port (fig. 2) and snap AG-2550E Secondary Pan Sensor into mounting bracket.
 - A. Note: If not using a secondary drain pan, AG-2550E Secondary Pan Sensor may be mounted to the side of the HVAC unit using the double-sided tape or mounting bracket. (fig.3)
3. Test the AG-2550E control box: Place Control Box in pan, add enough water to the pan to cover contacts for at least 60 seconds. LED will illuminate and HVAC unit will stop running if wired correctly.
4. Place the included ATTENTION sticker on HVAC unit in a clearly visible location (fig. 9).

Installation of the AG2550E In-line sensor

1. Couple the probe sensor to the "Y Cable" using the one-way connector (fig. 19)

2a. Horizontal Installation

- A. Connect supplied 3/4 male threaded straight slip pipe fitting (Figure 11) or 3/4 male threaded 90 degree slip pipe fitting (Figure 12) to air handler using thread sealant. Use wrench to tighten. Do not over tighten.
- B. Make sure the sensor cap of the AG-2550E (Fig 13) has o-ring installed and is properly hand tightened onto the correct up-facing port. (See Fig 11 or 12)
- C. Noting the direction of flow for the horizontal position indicated on the side of the AG-2550E, apply PVC glue to the end opposite the horizontal arrow and mate to the air handler in a twisting motion, making sure the clean out port/sensor cap port is left facing the up position.
- D. Apply PVC glue to the outside slip surface of the provided slip ring (Fig 14) and insert into the downward flow end of the AG-2550E in a twisting manner.
- E. Check that the sensor body portion is not exceeding 30 degrees of decline from the horizontal. Attach the remaining (schedule 40) 3/4" PVC condensate pipe in a manner that is consistent with recommended industry standards.

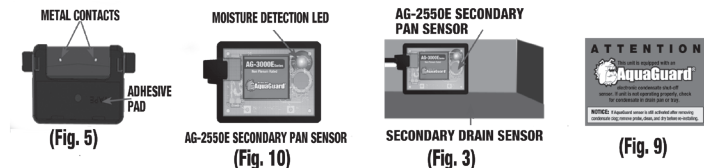
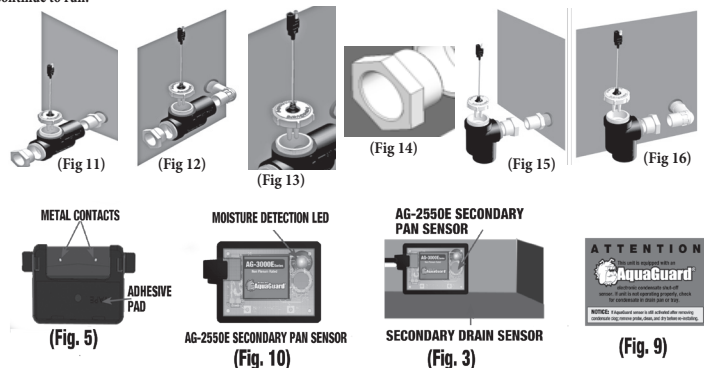
2b. Vertical Installation

- A. Connect supplied 3/4 male threaded straight slip pipe fitting (Figure 15) or 3/4 male threaded 90 degree slip pipe fitting (Figure 16) to air handler using thread sealant. Use wrench to tighten. Do not over tighten.
- B. Make sure the sensor cap of the AG-2550E (Fig 13) has o-ring installed and is properly hand tightened onto the correct up-facing port. (See Fig 15 or 16)
- C. Noting the direction of flow for the 90 degree flow position indicated on the side of the AG2550E, apply PVC glue to the outside slip surface of the provided slip ring and insert into the inflow end of the AG2550E in a twisting manner.
- D. Apply PVC glue to the inside surface of the slip ring (Fig 14) and attach the AG2550E body to the air handler.
- E. Check that the AG2550E is perpendicular to the horizontal. Attach the remaining (schedule 40) 3/4" PVC condensate pipe in a manner that is consistent with recommended industry standards.

3. Place the ATTENTION sticker on HVAC unit in a clearly visible location (fig. 9).

4. Test the HVAC unit by plugging the condensate line and filling the primary drain pan with water. If installed properly, the HVAC unit will shut down (Time delay up to 60 sec ON/60 sec OFF).

Note: If "Optional Wiring" was chosen, only the compressor will shut-off upon condensate detect. The Air Handler will continue to run.



Installation of the AG-2550E control box:

(To ensure proper performance of product, instructions must be followed.)

1. Clean desired mounting area with included alcohol pad.
2. Using the double-sided tape provided with the AG-2550E, affix the mounting bracket in the lowest point of the pan within 25" of the secondary drain port (fig. 2) and snap AG-2550E Secondary Pan Sensor into mounting bracket.
 - A. Note: If not using a secondary drain pan, AG-2550E Secondary Pan Sensor may be mounted to the side of the HVAC unit using the double-sided tape or mounting bracket. (fig.3)
3. Test the AG-2550E control box: Place Control Box in pan, add enough water to the pan to cover contacts for at least 60 seconds. LED will illuminate and HVAC unit will stop running if wired correctly.
4. Place the included ATTENTION sticker on HVAC unit in a clearly visible location (fig. 9).

LIMITED WARRANTIES AND LIMITATION OF LIABILITY

REGISTER YOUR PRODUCT ONLINE: www.rectorseal.com

1 YEAR SWITCH AND SENSOR LIMITED WARRANTY AND LIMITATION OF LIABILITY

The limitations of liability set forth below include body and all component parts as well as the product itself as a whole.

Rectorseal warrants to the original consumer purchaser ("Purchaser") of its AquaGuard switch and sensor products, that they are free from defects in material or workmanship for a period of one (1) year from the date of purchase. If this product shall prove to be defective within the one (1) year period from the date of purchase, it shall be repaired or replaced, at Rectorseal's option, subject to the GENERAL TERMS and CONDITIONS set forth below.

EXCLUSIONS

This warranty does not cover damages resulting from use of components or accessories not approved by Rectorseal.

3, and 10 YEAR SECONDARY DRAIN PAN LIMITED WARRANTY AND LIMITATION OF LIABILITY

This warranty applies only to secondary drain pans installed in the United States and Canada.

Rectorseal warrants to the original consumer purchaser ("Purchaser") of its AquaGuard secondary drain pan products, that they are free from defects in material or workmanship for a period of three (3) years for Titan pan models, ten (10) years for Goliath and Goliath Furnace models, from the date of purchase. If this product shall prove to be defective within the three, five or ten (3, or 10) year period from the date of purchase, it shall be repaired or replaced, at Rectorseal's option, subject to the GENERAL TERMS and CONDITIONS set forth below.

This warranty extends only to the original consumer purchaser and is nontransferable.

EXCLUSIONS

This warranty does not cover damages resulting from the use of corrosive material (including, but not limited to: Acetone, MEK and petroleum-based products); nor damages resulting from use of components or accessories not approved by Rectorseal.

GENERAL TERMS AND CONDITIONS

To be eligible for the warranty the purchaser must provide Rectorseal with the following:

1. Proof of Purchase (Original Receipt)
2. Installer's Testimony
3. Original Product
4. Original Work Order
5. Photos of Installation

PURCHASER MUST PAY ALL LABOR AND SHIPPING CHARGES NECESSARY TO REPLACE PRODUCT COVERED BY THIS WARRANTY. This warranty shall not apply to acts of God, nor shall it apply to products which, in the sole judgment of Rectorseal have been subject to negligence, abuse, accident, tampering, misapplication, alteration; nor due to improper installation, operation or maintenance or storage; nor moved from its original place of installation; nor to other than normal application, use or service, including but not limited to, operational failures caused by corrosion, rust or other foreign materials in the system. Requests for service under this warranty shall be made by returning the defective product to the Retail outlet or to Rectorseal as soon as possible after the discovery of any alleged defect. Rectorseal will subsequently take corrective action as promptly as reasonably possible. No requests for service under this warranty will be accepted if received more than thirty-one (31) days after the term of the warranty. This warranty sets forth Rectorseal's sole obligation and purchaser's exclusive remedy for defective products. For your benefit and protection register your product online at www.rectorseal.com within thirty (30) days of installation. This will initiate the Warranty period and will allow us to contact you, should it become necessary. In the absence of a recorded product registration, the Warranty period will begin upon product shipment from Rectorseal. In the event that Rectorseal attempts to contact consumers regarding a recall or other matter, and any damages occur, which could have been avoided by registration by the consumer, Rectorseal shall have no liability. IN ALL CIRCUMSTANCES, RECTORSEAL'S MAXIMUM LIABILITY SHALL NOT EXCEED THE ACTUAL PURCHASE PRICE PAID FOR THE PRODUCT ALONE. Warranty claims must be registered with Rectorseal within thirty (30) days of damage or malfunction. Rectorseal reserves the right to visit the site of the installation or to require documentation of the claim before assuming any responsibility under the provisions of this Warranty. Consumer agrees to inspect the product at the time of installation for any reasonable discernable defects and, further, agrees to inspect the product annually. Any damages occurring, which could have been avoided by proper inspection will not be the responsibility of Rectorseal. RECTORSEAL SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, OR CONTINGENT DAMAGES WHATSOEVER TO THE PURCHASER OR ANY THIRD PARTY. THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL EXPRESSED WARRANTIES. IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL NOT EXTEND BEYOND THE DURATION OF THE APPLICABLE EXPRESSED WARRANTIES PROVIDED HEREIN.

Some states do not allow the exclusion of limitation of incidental and consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other legal rights that vary from state to state.

VENUE: Any purchaser or third party actions brought for any reason hereunder shall be commenced in Houston, TX and no other jurisdiction, and such action shall be governed by and construed in accordance with the laws of the State of Texas. Any notice herein shall be sent by certified or registered mail to 2601 Spenwick Drive, Houston, TX USA

24 VAC, 5 amps