AIRA-GUARD™ Control Panel

Single Beacon, 120VAC | Type 4X Enclosure
Model: AGAS120

ALDERON™ Industries
Leading Edge Control Products

QUICK START GUIDE

Safety Guidelines

WARNING

Before proceeding with the installation or operation of this product, read all instructions thoroughly, as well as complying with all federal, state and local codes, regulations, and practices. This product must be installed by qualified personnel familiar with all applicable local electrical and mechanical codes. Refer to the National Electrical Code (NEC) (NFPA 70). Failure to properly install, test, and operate this product can result in personal injury or equipment malfunction.

1. DISCONNECT POWER when installing or servicing the product. Failure to disconnect all power sources could result in serious injury or death.

2. NEVER enter a flooded space without proper Personal Protective Equipment (PPE). Always wear dielectric rubber boots and other applicable protective equipment when water is on the floor and you must service an energized pump, alarm system, or product.

3. DO NOT enter the water if the water level is higher than that of the protection your PPE offers or if your PPE is not watertight.

4. DO NOT use or install this product with or near flammable liquids.

5. DO NOT use or install this product in locations classified as hazardous or in explosive atmospheres as defined by any applicable electrical safety code.

Step 1: Installation

Use this quick start guide as reference to match up each component included to the correct terminals inside the sensor panel shown in each step.

1. Mount and secure the sensor panel in the desired location. Recommended to use four (4) screws (not included) and wall mount anchors (not included) if necessary.

2. Install using the appropriate conduit connections. Make sure all conduits are sealed and waterproof per local codes.

3. **WARNING:** Do not mix high and low voltage wires in the same conduit or junction box, failure to do so will cause system failure. Follow NEC requirements pertaining to separation of voltages if run in the same conduit.

4. Incoming alarm/control power must match the sensor panel voltage. Refer to included electrical schematic for complete wiring and voltage information.

Step 2: Wiring | Float Switches

Wire the sensors (signaling device) to the terminal blocks listed below and shown in the diagram for pump stop, pump start, and high level alarm.

FS1-Stop/Start Float; Wire #1	=	TB1:3
FS1-Stop/Start Float; Wire #2	=	TB1:4
FS2-High Level Float; Wire #1	=	TB1:9
FS2-High Level Float; Wire #2	=	TB1:10
FS3-Timer Override Float; Wire #1	=	TB1:1
FS3-Timer Override Float; Wire #2	=	TB1:2

(AGAS120 model shown, 120VAC)

(TB1)
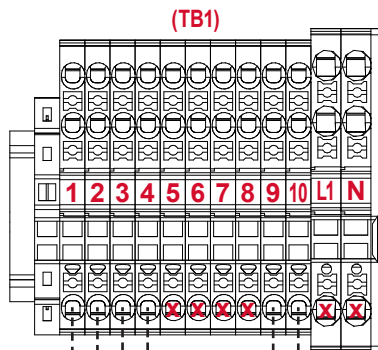
Note: The Aira-Guard Control Panel exact terminal block layout may vary, but TB1:1, 2, 3, 4, 5, 6, 7, 8, 9, 10, L1, N are consistent for wiring connections


FS3 Timer Override Float
FS1 Stop/Start Float
FS2 High Level Float

Step 3: Wiring | Pump & Compressor

Wire the pump connections (load) to the motor contactor terminals listed below and shown in the diagram.

Pump Connection-T1	=	TB1:5
Pump Connection-T2	=	TB1:6
Ground Pump Motor PE	=	GND1 (control panel ground lug)
Compressor Connection-T1	=	TB1:7
Compressor Connection-T2	=	TB1:8
Ground Pump Motor PE	=	GND1 (control panel ground lug)

(AGAS120 model shown, 120VAC)

(TB1)
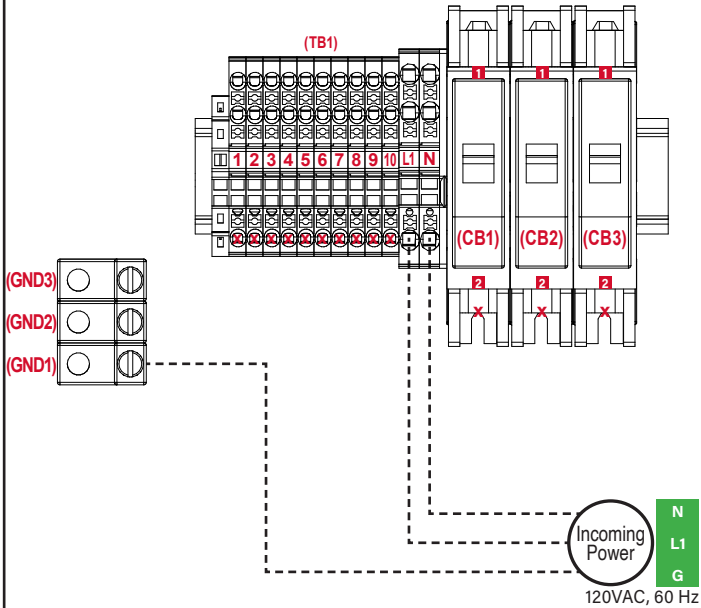

PUMP 1 1~ T1 T2 PE
120VAC, 15A, 60 Hz

COMP. 1 1~ T2 T1 PE
120VAC, 7A, 60 Hz
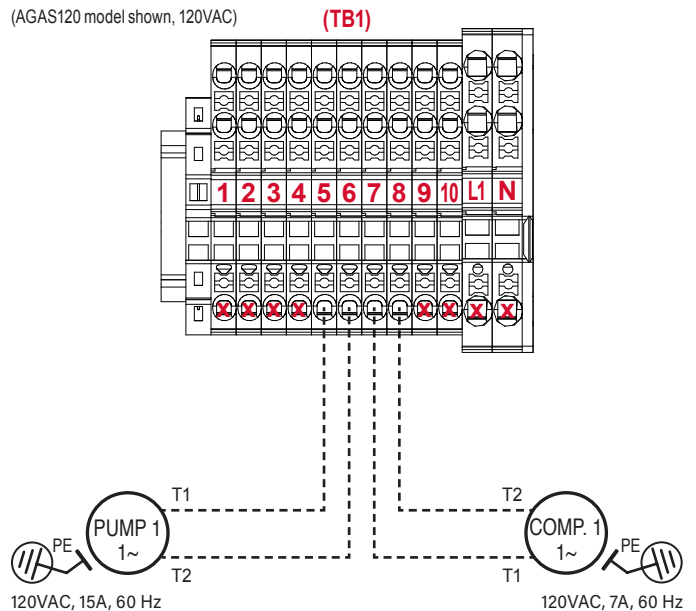
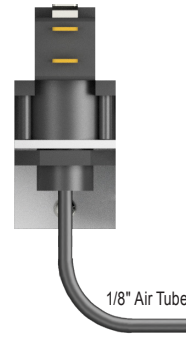# Step 4: Wiring | Incoming Power

Wire the incoming alarm and pump/control power to the terminals listed below and shown in the diagram.

Incoming Pump/Alarm Power; Neutral (N)   = TB1:N
Incoming Pump/Alarm Power; Line (L1)   = TB1:L1
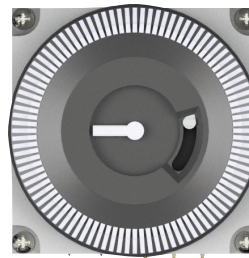Incoming Pump/Alarm Power; Ground (G) = GND1

Step 5: Optional Air Switch and Timer Settings

If panel includes option "A" – Air Switch

1/8" Air Tube

1. Drill hole in bottom of enclosure for 3/8" Type 4X cable gland to allow a 1/8" vinyl tube air line connected to compressor to be attached to the air switch inside the control panel.

If panel includes option "T" – Spray Timer

1. Set timer to correct time of day by rotating the dial.

2. Push down on the pins on the time clock to where you want to enable/allow pumping.

Step 6: Power and Quick Test

After all wiring and installation steps are completed, verify the incoming voltage matches the panel schematic. Apply power to the panel.

1) Activate the alarm float, the buzzer should annunciate, red alarm beacon should illuminate. Make sure the Normal-Silence-Test switch is in the Normal position. While the alarm is activated, toggle the Normal-Silence-Test switch to the Silence position and the buzzer should silence. Toggle the Normal-Silence-Test switch to the Normal Position when finished testing.

2) Test the alarm buy Toggling the Normal-Silence-Test switch to the Test position. The alarm should activate. Toggle the Normal-Silence-Test switch to the Normal position when finished testing.

3) Activate the pump on/off float, the pump should start.

4) Optional Test if panel includes option "A" – Air Switch: Turn off the compressor breaker and the alarm should activate

Included with Product

- **Base Model: AGAS120**

Panel Options (may be installed – check model number on panel)

- **A – Air Switch**
- **P – Pump Test Switch**
- **T – Spray Timer**

Customer Support

Online
alderonind.com

Email
info@alderonind.com

QR Code
Scan code for full product details, documents, and operating information

Specifications (standard; base model)

Aira-Guard™ Control Panel | Single Beacon

Primary Power:	120 VAC, 15 Amps
Phase Type:	Single Phase
Incoming Power Voltage:	120 VAC
Alarm Beacon:	Red Polycarbonate, 10 Watt, 120 VAC
Alarm Buzzer:	120VAC, 95 dB at 2-feet
Normal-Silence-Test Switch:	120VAC, 6 Amp, Double Pole, Double Throw
Enclosure (inches):	Thermoplastic, 10x8x4, Type 4X (outdoor), Pad-Lockable
Certifications:	UL 508 (US and Canada)
Warranty:	Three-Year Limited Warranty