

ALARM PANEL #CAL-AL120**DESCRIPTION**

#CAL-AL120 is a multipurpose alarm that can be used in a wide variety of applications such as: condensate neutralizers, septic tanks, sumps, holding tanks, pump chambers, water tanks, or any others where a “dry” contact can be connected to the alarm.

The alarm is powered by 120VAC coming from standard wall outlets and is transformed to 9-11.1VDC. Installing a 9VDC battery provides battery backup. The power LED (green) will illuminate when powered.

When a switch (signaling device) contact “closes” an alarm condition occurs, the buzzer will annunciate, alarm LED (red) will illuminate, and the built-in auxiliary contacts will be activated.

Pressing the “silence” pushbutton during an alarm condition will silence the buzzer and the alarm LED remains on. When the switch contact “opens” (deactivated) and alarm condition is cleared, the system automatically resets itself for the next alarm cycle.

Before proceeding with the installation or operation of the alarm panel, read all instructions thoroughly, as well as complying with all federal, state, and local codes, regulations, and practices. The alarm panel #CAL-AL120 must be installed by qualified personnel familiar with all applicable local electrical and mechanical codes. Refer to your national electrical code. Failure to properly install and test this product can result in personal injury or equipment malfunction.

SAFETY GUIDELINES

1. DISCONNECT ALL ELECTRICAL SERVICE BEFORE INSTALLING OR WORKING ON THE PRODUCT.
2. DO NOT USE WITH FLAMMABLE OR EXPLOSIVE FLUIDS SUCH AS GASOLINE, FUEL OIL, KEROSENE, ETC. DO NOT USE IN EXPLOSIVE ATMOSPHERES.
3. ALARM UNIT IS DESIGNED FOR INDOORS and MUST BE MOUNTED INDOORS. FOR OUTDOOR APPLICATIONS, CONSULT FACTORY.

TOOLS, SUPPLIES, AND REQUIREMENTS FOR INSTALLATION (NOT INCLUDED)

1. Philips screwdriver
2. (Qty 2) #6 self-tapping screws
3. Access to 120VAC power receptacles
4. Optional - Plastic anchor if mounting to sheet rock
5. Optional - 9V battery (battery backup for power outages)
6. Optional - Wire stripper (connecting to a BAS or SCADA system)
7. Optional - Need nose pliers if using auxiliary contacts

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INSTALLATION

1. To install/replace the battery for the backup power feature, remove the access cover (Fig. 1) and install 9VDC battery (Fig. 2).
2. After installing battery, the green power LED should illuminate, then press and hold the “test” pushbutton (Fig. 3) to activate the alarm and make sure the battery is working properly. The buzzer should announce, and the alarm LED (red) should illuminate. If using the auxiliary contacts, leave the access cover off until step 5 is completed. If the auxiliary contacts are not used, replace the access cover (Fig. 4).

(Fig. 1)



(Fig. 2)



(Fig. 3)

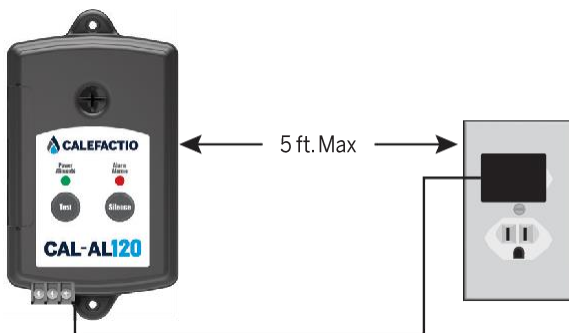


(Fig. 4)



3. Determine the mounting location for the alarm panel. Make sure power outlet (120VAC, 60 Hz) is within 5-feet of the alarm panel (Fig. 5).
4. The power outlet should be on a separate circuit breaker from any other device and not on a switched receptacle to maintain power integrity. Mount the alarm panel using two #6 self-tapping screws (not included / Fig. 6). Use two #8 plastic anchors (not included / Fig. 7) if mounting the alarm panel to sheet rock. DO NOT plug the power cord of the alarm panel into wall outlet or power receptacle (Fig. 5) until all steps of the installation are completed and the system is ready for testing.

(Fig. 5)



(Fig. 6)



(Fig. 7)



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INSTALLATION (continued)

5. If connecting to an existing alarm security system or building automation system (BAS), leave Terminals “+” and “-” open and use 18 gauge 2-conductor wire to connect the existing product to Terminals 1A and 1B (Fig. 8). When connected, replace the access cover, and pull wire(s) through the knockout(s) on the access cover (see step 6).

CAUTION! - Route all wires away from sharp objects and internal components when installing wires.

AUXILIARY CONTACTS:

Terminals “+” and “-”

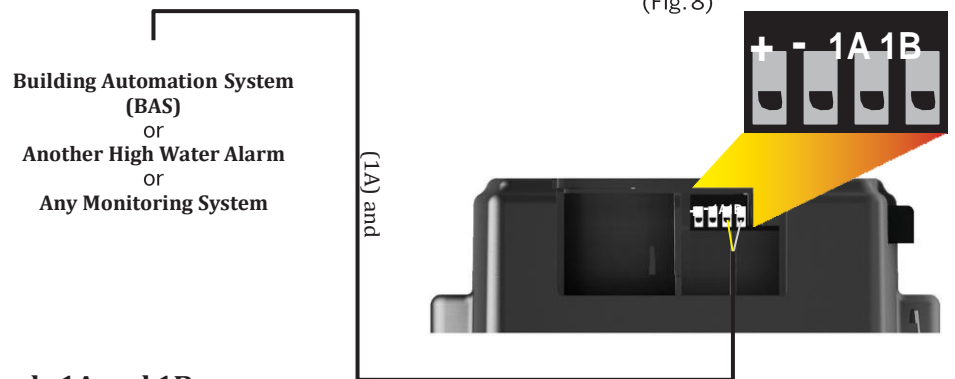
DO NOT USE
11.1 VDC, 100mA power supply
for external equipment

Terminals 1A and 1B

Normally Open

Class 2, 24 VDC/VAC (60 Hz)
100 Milliamps Maximum

Note: The auxiliary contacts on Terminals 1A and 1B of the alarm panel are Normally Open only.

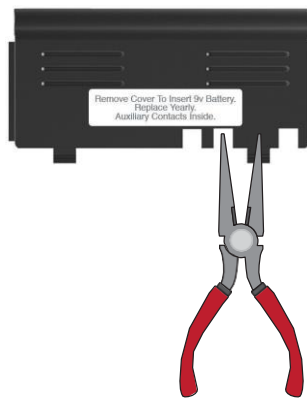


6. After the access cover has been removed from the alarm panel (Fig. 9), use a needle nose pliers (not included) to remove the desired “break away tabs” from the access cover, lightly pull and twist off tab(s) (Fig. 10). Replace the access cover and run wire(s) through the knockout(s) (Fig. 11).

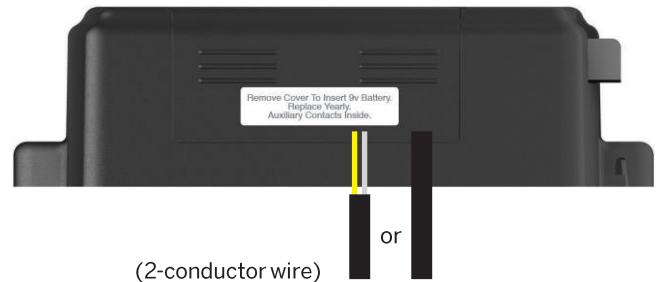
(Fig. 9)



(Fig. 10)



(Fig. 11)



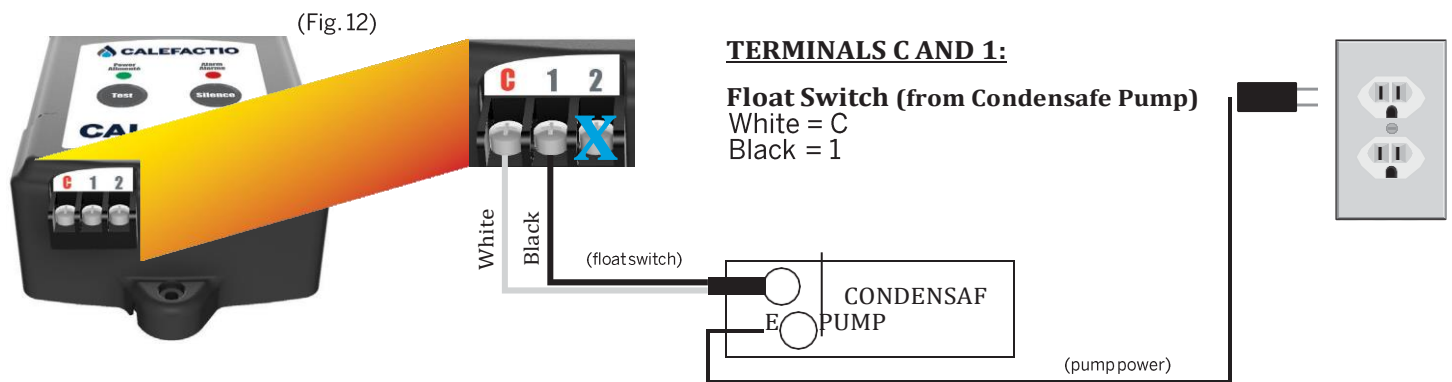
7. Make note of the alarm condition(s) you are monitoring and keep them near the alarm panel.

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INSTALLATION (continued)

8. Connect any combination of switches (signaling device; rated 9VDC, 200mA Minimum) such as a float switch, pressure switch, water sensor, water probe, etc. to Terminals C and 1 on the terminal block of the alarm panel. **TERMINAL 2 IS NEVER USED.** See below (Fig. 12) for wiring example. The alarm is activated by a “closed” switch.

CAUTION! - When installing the “Signaling Device”, refer to its installation instructions for proper installation.



9. Plug the alarm panel power supply into a 120VAC, 60 Hz standard wall outlet and the green “Power” LED should illuminate (Fig. 13).

TESTING

10. Test the alarm panel by pressing and holding the “test” pushbutton (Fig. 14) or activating the “Signaling Device” (i.e., float switch from Condensafe Pump). The buzzer should announce, and the alarm LED (red) should illuminate. Press the “silence” pushbutton and the buzzer should silence while the alarm LED remains on. After releasing pressure from the “test” pushbutton or deactivating the “Signaling Device”, the auto reset feature reactivates the alarm panel for the next alarm cycle. If testing with “Signaling Device”, make sure to test all devices for complete system operation. Test product monthly to ensure system integrity.

