

ACT installation guide

Phason's AC Transformer (ACT) is a CSA approved, class 2 power supply. The ACT provides 24 VAC and is ideal for alarm systems and actuators.

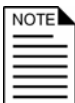
If you need AC and DC power, Phason has a power supply called the Regulated Power Supply (RPS) that supplies 24 VAC and 13.6 VDC. For information about the RPS, contact your dealer.

Features

- ◆ Easy installation
- ◆ Maintenance-free design
- ◆ Overload protection fuse
- ◆ Rugged enclosure (corrosion resistant, water resistant, and fire retardant)
- ◆ CSA approval
- ◆ 90-day limited warranty

Electrical ratings

- ◆ Input: 115/230 VAC, 50 VA, 50/60 Hz
- ◆ Output: 24 VAC, 15 W (maximum)
- ◆ Fuse: 1 A, 250 V fast-acting glass



The ACT has a resettable fuse on the AC output that helps protect the unit against a severe overload. A severe overload of the AC output will trip the fuse. To reset the fuse:

1. Disconnect the incoming power or the AC load.
2. Fix the problem that caused the overload.
3. Reconnect the power or the AC load.

Calculating power consumption

Before connecting multiple devices to the ACT, you need to calculate the total power consumption of all the devices. The ACT supplies a *maximum* of 15 W of power. The combined power consumption of all devices you connect to the ACT cannot be more than 15 W.

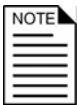
Some devices have a power consumption rating in watts; others have a current draw in amperes. To convert an ampere rating to watts, use the following formula:

$$W=V \times A \quad W=\text{watts, } V=\text{volts (24 VAC or 13.6 VDC), } A=\text{amperes}$$

For example

You are using chimney ventilation in a barn. Each chimney vent requires a damper actuator. Each actuator draws 83 mA. How many actuators can you connect to the ACT?

- ◆ Calculate the power consumption for each actuator: $24 \text{ V} \times .083 \text{ A} = 2.00 \text{ W}$
 - ◆ Calculate the total power consumption: $15 \text{ W} \div 2.00 \text{ W} = 7.5$
 - ◆ You can connect up to 7 actuators to the ACT.
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Always check the installation guide for each product before calculating the power consumption for the devices.

Precautions, guidelines, and warnings

The AC Transformer must be installed by a qualified electrician.

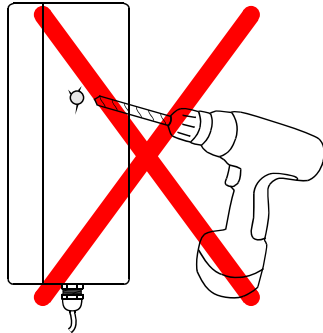
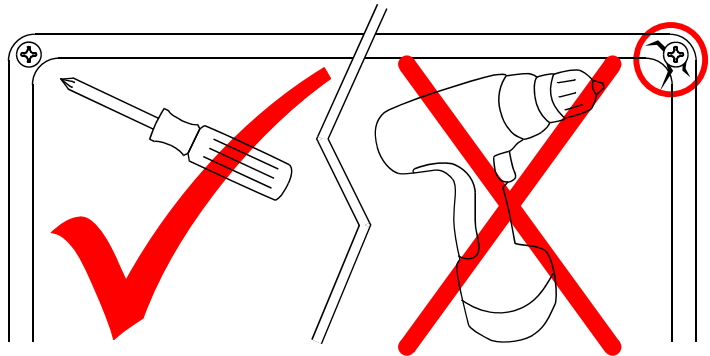


Before installing or servicing the AC Transformer, switch OFF the power supply at the source.

Install the AC Transformer and all equipment connected to it according to local electrical codes.

Mount the control on a sheltered, vertical surface, with the electrical knockouts facing down.

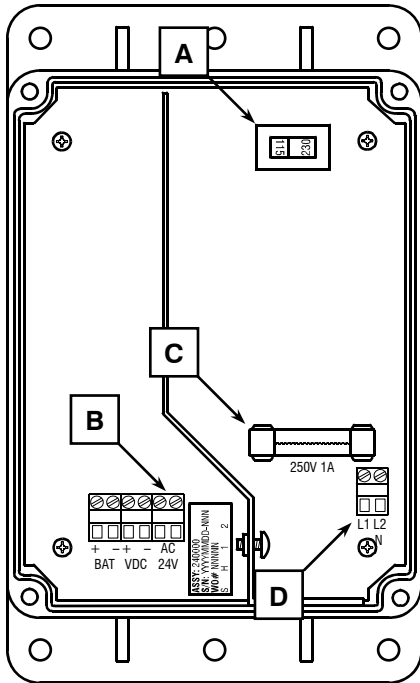
Use a screwdriver to tighten the screws in the enclosure. Do not use a drill or over tighten the screws; this can crack the enclosure and ruin the watertight seal.



Use the electrical knockouts for bringing wires or cables into or out of the enclosure. Use watertight strain reliefs or conduit connectors at all cable-entry points.

Do not make additional holes in the enclosure; this can damage the watertight seal or control components and void the warranty.

ACT layout



- A** Voltage selection switch—make sure you set this switch to the correct voltage before installing the ACT.
- B** 24 VAC output terminal—connect devices that require AC power to this terminal.
- C** Incoming power fuse—1 A, 250 VAC non-time-delay glass fuse.
- D** Incoming power terminal—connect the incoming power (115/230 VAC) to this terminal.

To install the ACT

1. Mount the ACT on a vertical surface with the electrical knockouts facing down.
2. Set the voltage selector switch to the correct incoming power (115 or 230 VAC).
3. Connect the incoming power wires to the incoming power terminal.
4. Connect the devices to the output terminal. For more specific information, see the product's installation guide.