ELECTRICIAN'S WIRING GUIDE

The Sentry PAC Pro (SPP or PAC) has been designed to have a much more robust and capable electrical system than previous generations of the Sentry PAC. To ensure proper installation, follow these quick steps:

STEP 1: Remove the faceplate of the PAC via the six Phillips screws

⚠Caution should be taken when removing the faceplate as it is connected by a FRAGILE ribbon `cable for operation!⚠

- Be sure to drill out the appropriate knock out holes and use the appropriate strain reliefs
- The RJ45 sensor cable terminal and the relays are located on the 2400 Logic Board (front board)
- The incoming 120VAC power terminal is located on the 1400 Power Board (back board) and is labeled: **L1** ; **L2**

STEP 2: Wire-in the relays

- To determine which relays will be most suitable for your specific site, special consideration should be given to the following:
  - **The 8 relays on the SPP are broken down into two groups:**
    - Program A will run relays #1-#4
    - Program B (if applicable) will run relays #5-#8
  - **Phase Converter:** (if required)
    - The SPP is designed to **close** (turn on) the relays in an **ascending** sequence and **open** them (shut off) in a descending sequence within each program. For example:
      - Program A: (the same sequence applies to Program B [relays #5-#8])
        - Relay **ON** sequence: #1 ; #2 ; #3 ; #4
        - Relay **OFF** sequence: #4 ; #3 ; #2 ; #1
      - Wire the phase converter into relays #1 and #5 to ensure activation in the proper sequence
- **Wiring the fans:**
  - Bring 120V power (line) to the COM (common) side of the relay

    ⚠Do NOT use the incoming power for the PAC to power the relays. Doing so will cause the PAC to malfunction.⚠
  - Bring the load side from the starter coil on the fan to the NO (normally open) side of the relay

Notes:

- It is not necessary to wire all the relays for operation
- The SPP does not supply power to the NO or COM side of the Relay
- As solid wire may vibrate, causing the terminals to loosen, it's advisable to create a hook around the terminal screw

STEP 3: Connect the sensor cable

- **Do NOT modify the included sensor cable. Doing so WILL void the warranty and WILL cause damage to the PAC.**

- Remove the four screws that hold the cover on the sensor box
- Plug one end of the included sensor cable into the RJ45 terminal located on the sensor board
- Plug the other end into the RJ45 terminal located on the 2400 Logic Board

STEP 4: Connect the incoming power

- The incoming power for the SPP needs to be 120VAC on its own, separate line from a 15 - 20 amp breaker
- An ***isolated*** earth ground is also required to negate interference and phantom voltages

- Connect the line voltage to the terminals **L1** and **L2**
- Connect the ground to the earth ground terminal located to the right of the power terminal

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Quick Start Guide

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Program Your Pac™

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