

# A120 Differential Pressure Sensor Installation



This document provides examples of several methods for the physical installation of the Primex Wireless A120 Differential Pressure Sensor. Items provided in the optional installation kit (Accessory Kit SNSDPLT) are also used for these examples. In addition, instruction on how to wire and enable the optional door switch (Kit SNSMSSW1) to the sensor is provided.

These instructions assume a through-wall installation from one room to an adjacent room (or hallway). An in-wall junction box approach is shown; however, a similar method can be used for mounting without a junction box.

## EQUIPMENT USED:

- A120(Q):** Differential Pressure Sensor (includes silicone tubing and port cover)
- SNSDPLT:** Optional installation kit containing mounting hardware (wall plates, grommets, etc.)
- SNSMSSW1:** Optional magnetic door switch w/ 50' of 22 AWG cable

## INSTALLATION OF PICK-UP SCREEN ON JUNCTION BOX: STEPS 1 - 4

**Step 1:** Route tubing between adjacent rooms



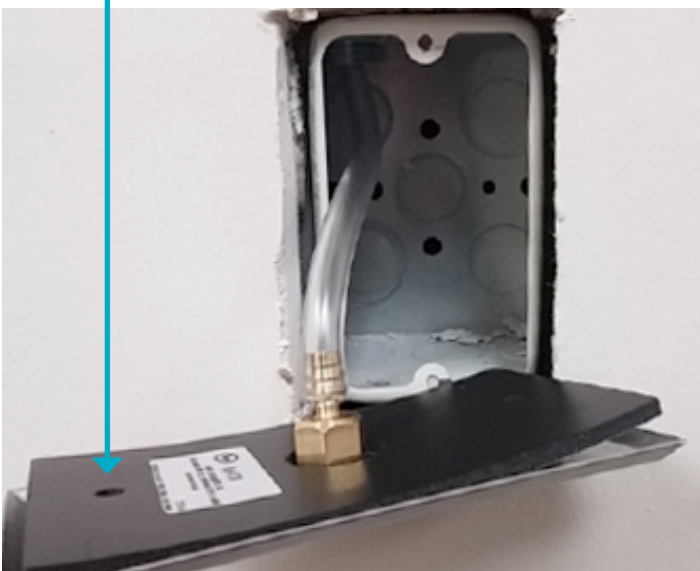
**Step 1:** Route tubing between adjacent rooms



**Note:** The pick-up screen, wall plates, and grommets are provided in the optional SNSDPLT installation kit. The pick-up screen/wall plate assembly is typically inside the room being monitored. The tubing runs through the wall to the sensor in the adjacent room or hallway.

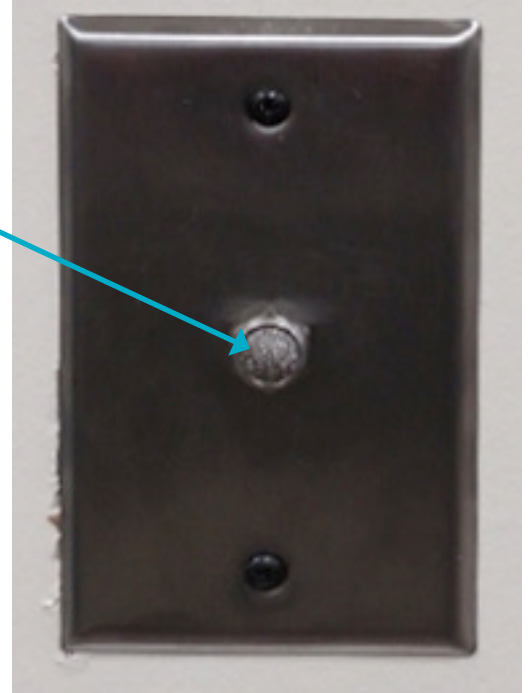
**Step 3:** Attach the wall plate to the tubing by screwing the pick-up screen into the mating connector.

**Make sure to use the backing gasket on the wall plate to ensure no pressure leaks!**



**Step 4:** Screw the wall plate on the junction box (or into drywall if not using junction box). Finished pick-up point assembly is shown below.

**Pick-up  
Screen**



## INSTALLATION OF SENSOR ON JUNCTION BOX: STEPS 5 - 7

**Step 5:** In adjacent room or hallway, attach tubing to appropriate port (high port is on the right). Attaching tube to port shown (left) expects room to be negative.

**Step 6:** Mount sensor to the junction box using the key-hole slot on the back of the sensor housing.





**Step 7:** Once the sensor is mounted on the wall, snap the provided port cover housing in place to provide a clean look with no exposed connections.

**Note:** The port cover only stays in place when the sensor is against the wall

Port Cover

## ALTERNATE INSTALLATION METHOD OF SENSOR USING WALL PLATE: STEPS 1A – 4A

**Step 1a:** Insert the provided sealing grommet into the center wall plate hole.



Grommet

**Step 2a:** Run tubing through the center of the wall plate ensuring proper seal with the grommet.





**Step 3a:** Attach wall plate, Attach sensor to the wall using screws or the provided 3M dual lock.



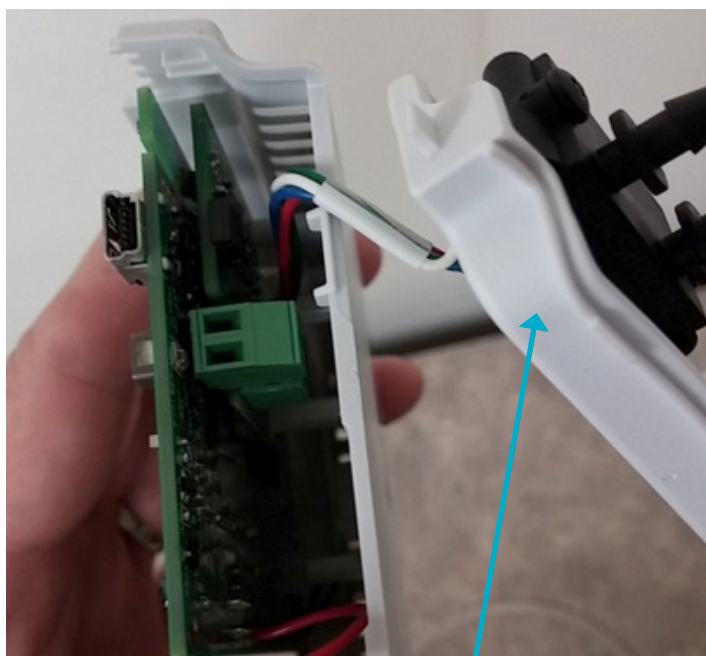
**Step 4a:** Attach tubing and port cover to assembly.



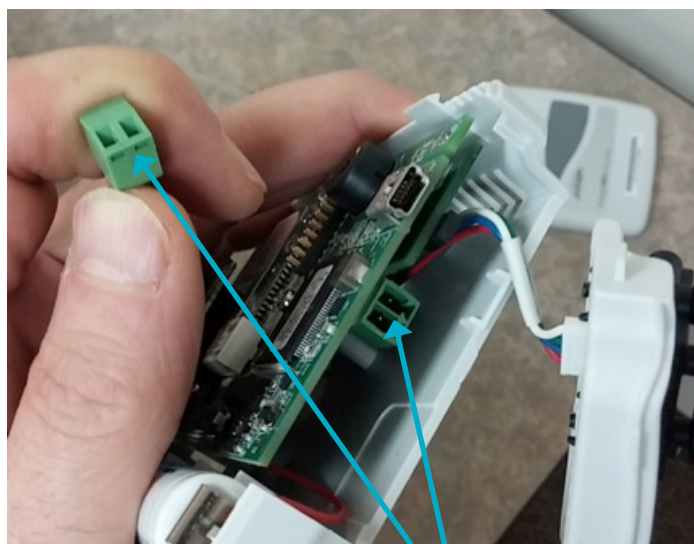
## STEPS FOR CONNECTING OPTIONAL DOOR SWITCH: STEPS 1B – 4B

**Step 1b:** Remove Sensor top cover by pressing side tabs and lifting off. Remove bottom plate by flexing housing outward (near the bottom plate) and lifting off.

**Step 2b:** Locate and remove the 2 pin terminal from its mating connector (use needle nose pliers).



Bottom Plate

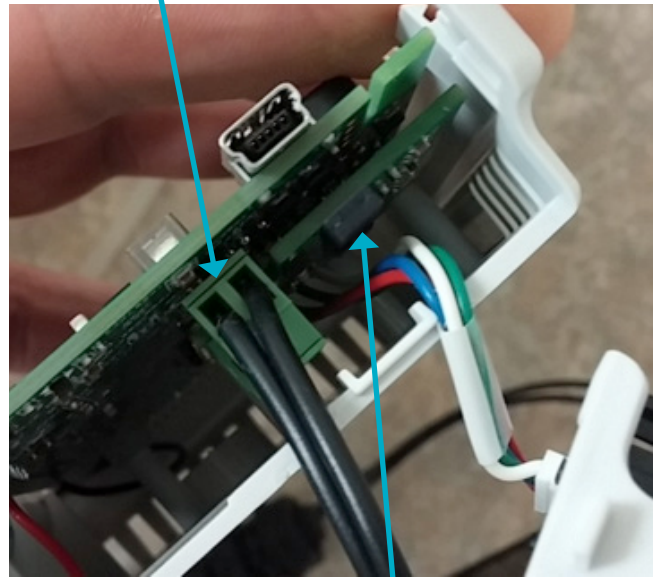


Terminal

**Step 3b:** Wire the door switch cable to the terminal block.



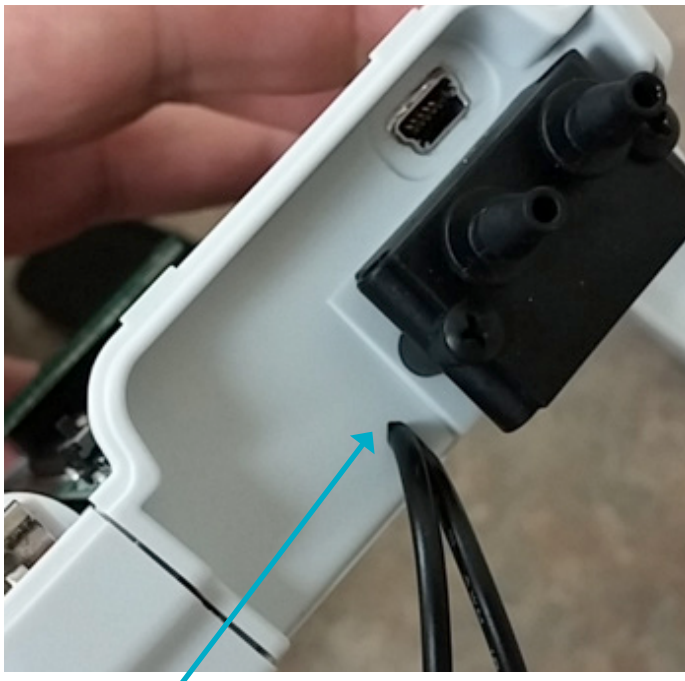
**Step 4b:** Re-insert the wired terminal in to the mating connector. Remove on-board jumper to enable door switch mode.



**Remove jumper to enable door switch feature**

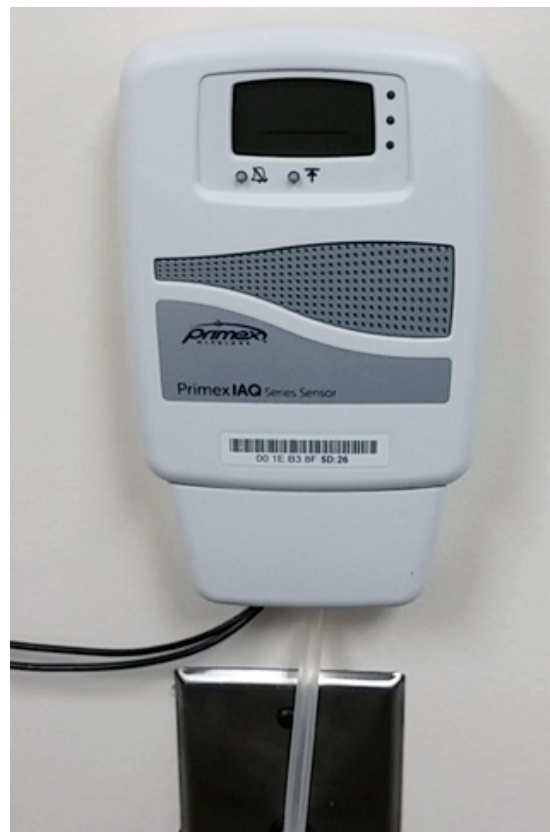
**Step 5b:** Route wiring through slit on bottom plate. Replace bottom plate cover by flexing housing and inserting bottom plate.

**Note:** make sure the bottom plate is aligned with tabs on housing.



**Route door switch wires through slit on bottom**

**Step 6b:** Reinstall sensor top cover; mount on wall and route door switch wires to the door switch location.



**Note:** When using a door switch with the this sensor, Primex recommends powering the sensor with the external power supply (T100PWR). While the sensor will work on battery power only, the battery life is significantly reduced when monitoring the door switch since the sensor wakes up and reports the door state on every open or close door event.