

# iVAC Pro System Installation Guide

Ver 1.1 16128-002

## 1 Introduction

This guide will walk through the installation of an iVAC Pro system step-by-step, with illustrations of DIP switch settings for each iVAC Pro product that is included in an iVAC Pro System. This guide is showing the switch positions for a system with 8 tools or less.

## 2 Dust Collector Compatibility

Before starting to set up your iVAC Pro system, please verify that your dust collector is compatible with the iVAC Pro Switch you ordered. Please contact iVAC technical support if you may have any question regarding the compatibility of your dust collector with iVAC Pro Switches at [info@ivacswitch.com](mailto:info@ivacswitch.com)


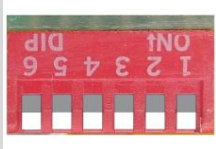
## 3 Preparation

Please do not install your iVAC Pro Products to its physical location until the RF communication of connection sets are set up and tested properly as described below.

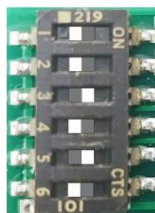
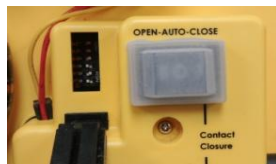
Please unbox your iVAC Pro Products and put them on a work table with power bar so you can power up each connection set and test it.

## 4 Set up each connection set

Please follow the sequence below to set up each connection set in your iVAC Pro system

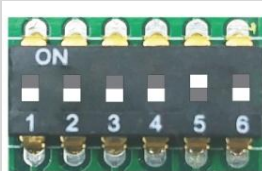
Connection Set		DIP Setting	Instructions
<b>SWITCH A</b>			Set to System Address A (S1 = OFF, S2 = OFF) Set Delay Time to 5 sec (S5 = OFF, S6 = OFF) Test it manually - ON / OFF Dust Collector Set Delay Time to your preference Set Mode to Auto - Ready to work with other iVAC modules

## GATE A2



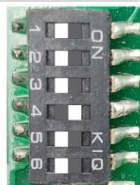
Set to System Address A (S1 = OFF, S2 = OFF)  
Set to Tool Address A2 (S4 = OFF, S5 = ON, S6 = OFF)  
Set Delay Time to 5sec (S3 = ON)  
Test it manually - Open / Close Gate A2  
Set Delay Time to your preference  
Set Mode to Auto - Ready to work with other iVAC modules

## SENSOR A2



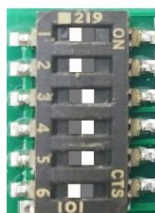
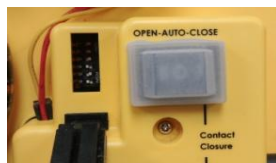
Set to System Address A (S1 = OFF, S2 = OFF)  
Set to Tool Address A2 (S4 = OFF, S5 = ON, S6 = OFF)  
Test it manually - ON / OFF to control Gate A2 and Switch A  
Set Mode to Auto  
Test Auto Mode with tool A2 to control Gate A2 and Switch A

## REMOTE A2



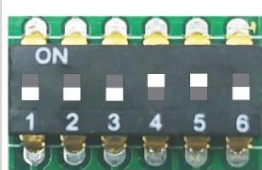
Set to System Address A (S1 = OFF, S2 = OFF)  
Set to Tool Address A2 (S3 = OFF, S4 = ON, S5 = OFF)  
Test it manually - ON / OFF to control Gate A2 and Switch A

## GATE A3



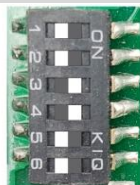
Set to System Address A (S1 = OFF, S2 = OFF)  
Set to Tool Address A3 (S4 = ON, S5 = ON, S6 = OFF)  
Set Delay Time to 5sec (S3 = ON)  
Test it manually - Open / Close Gate A3  
Set Delay Time to your preference  
Set Mode to Auto - Ready to work with other iVAC modules

## SENSOR A3



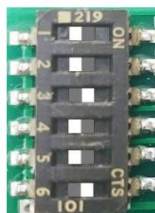
Set to System Address A (S1 = OFF, S2 = OFF)  
Set to Tool Address A3 (S4 = ON, S5 = ON, S6 = OFF)  
Test it manually - ON / OFF to control Gate A3 and Switch A  
Set Mode to Auto  
Test Auto Mode with tool A3 to control Gate A3 and Switch A

## REMOTE A3



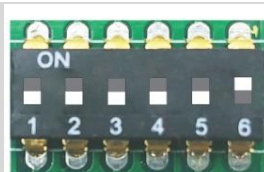
Set to System Address A (S1 = OFF, S2 = OFF)  
Set to Tool Address A3 (S3 = ON, S4 = ON, S5 = OFF)  
Test it manually - ON / OFF to control Gate A3 and Switch A

## GATE A4



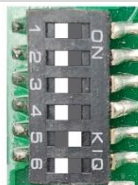
Set to System Address A (S1 = OFF, S2 = OFF)  
Set to Tool Address A4 (S4 = OFF, S5 = OFF, S6 = ON)  
Set Delay Time to 5sec (S3 = ON)  
Test it manually - Open / Close Gate A4  
Set Delay Time to your preference  
Set Mode to Auto - Ready to work with other iVAC modules

## SENSOR A4



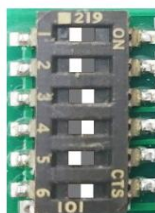
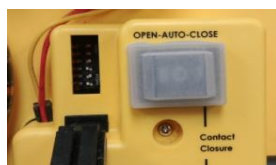
Set to System Address A (S1 = OFF, S2 = OFF)  
Set to Tool Address A4 (S4 = OFF, S5 = OFF, S6 = ON)  
Test it manually - ON / OFF to control Gate A4 and Switch A  
Set Mode to Auto  
Test Auto Mode with tool A4 to control Gate A4 and Switch A

## REMOTE A4



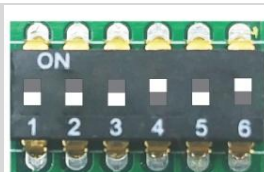
Set to System Address A (S1 = OFF, S2 = OFF)  
Set to Tool Address A4 (S3 = OFF, S4 = OFF, S5 = ON)  
Test it manually - ON / OFF to control Gate A4 and Switch A

## GATE A5



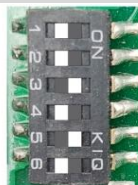
Set to System Address A (S1 = OFF, S2 = OFF)  
Set to Tool Address A5 (S4 = ON, S5 = OFF, S6 = ON)  
Set Delay Time to 5sec (S3 = ON)  
Test it manually - Open / Close Gate A5  
Set Delay Time to your preference  
Set Mode to Auto - Ready to work with other iVAC modules

## SENSOR A5



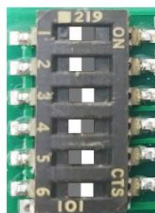
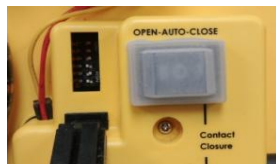
Set to System Address A (S1 = OFF, S2 = OFF)  
Set to Tool Address A5 (S4 = ON, S5 = OFF, S6 = ON)  
Test it manually - ON / OFF to control Gate A5 and Switch A  
Set Mode to Auto  
Test Auto Mode with tool A5 to control Gate A5 and Switch A

## REMOTE A5



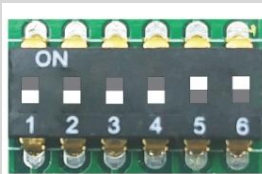
Set to System Address A (S1 = OFF, S2 = OFF)  
Set to Tool Address A5 (S3 = ON, S4 = OFF, S5 = ON)  
Test it manually - ON / OFF to control Gate A5 and Switch A

## GATE A6



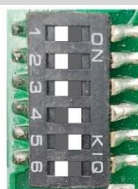
Set to System Address A (S1 = OFF, S2 = OFF)  
Set to Tool Address A6 (S4 = OFF, S5 = ON, S6 = ON)  
Set Delay Time to 5sec (S3 = ON)  
Test it manually - Open / Close Gate A6  
Set Delay Time to your preference  
Set Mode to Auto - Ready to work with other iVAC modules

## SENSOR A6



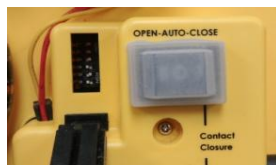
Set to System Address A (S1 = OFF, S2 = OFF)  
Set to Tool Address A6 (S4 = OFF, S5 = ON, S6 = ON)  
Test it manually - ON / OFF to control Gate A6 and Switch A  
Set Mode to Auto  
Test Auto Mode with tool A4 to control Gate A6 and Switch A

## REMOTE A6



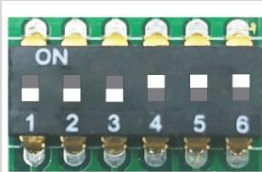
Set to System Address A (S1 = OFF, S2 = OFF)  
Set to Tool Address A6 (S3 = OFF, S4 = ON, S5 = ON)  
Test it manually - ON / OFF to control Gate A6 and Switch A

## GATE A7



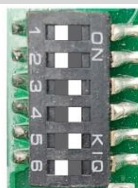
Set to System Address A (S1 = OFF, S2 = OFF)  
Set to Tool Address A7 (S4 = ON, S5 = ON, S6 = ON)  
Set Delay Time to 5sec (S3 = ON)  
Test it manually - Open / Close Gate A7  
Set Delay Time to your preference  
Set Mode to Auto - Ready to work with other iVAC modules

## SENSOR A7



Set to System Address A (S1 = OFF, S2 = OFF)  
Set to Tool Address A7 (S4 = ON, S5 = ON, S6 = ON)  
Test it manually - ON / OFF to control Gate A7 and Switch A  
Set Mode to Auto  
Test Auto Mode with tool A5 to control Gate A7 and Switch A

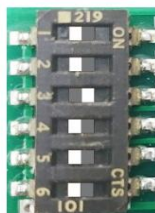
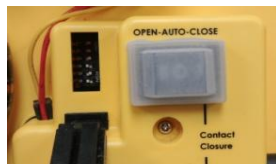
## REMOTE A7



Set to System Address A (S1 = OFF, S2 = OFF)  
Set to Tool Address A7 (S3 = ON, S4 = ON, S5 = ON)  
Test it manually - ON / OFF to control Gate A7 and Switch A

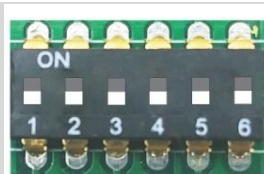


# GATE A8



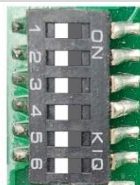
Set to System Address A (S1 = OFF, S2 = OFF)  
Set to Tool Address A8 (S4 = OFF, S5 = OFF, S6 = OFF)  
Set Delay Time to 5sec (S3 = ON)  
Test it manually - Open / Close Gate A8  
Set Delay Time to your preference  
Set Mode to Auto - Ready to work with other iVAC modules

# SENSOR A8



Set to System Address A (S1 = OFF, S2 = OFF)  
Set to Tool Address A8 (S4 = OFF, S5 = OFF, S6 = OFF)  
Test it manually - ON / OFF to control Gate A8 and Switch A  
Set Mode to Auto  
Test Auto Mode with tool A4 to control Gate A8 and Switch A

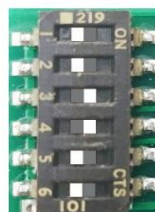
# REMOTE A8



Set to System Address A (S1 = OFF, S2 = OFF)  
Set to Tool Address A8 (S3 = OFF, S4 = OFF, S5 = OFF)  
Test it manually - ON / OFF to control Gate A8 and Switch A

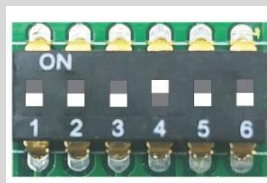
# GATE A1

Normally Open



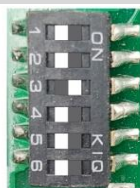
Set to System Address A (S1 = OFF, S2 = OFF)  
Set to Tool Address A1 (S4 = ON, S5 = OFF, S6 = OFF)  
Set Delay Time to 5sec (S3 = ON)  
Test it manually - ON / OFF - Open / Close Gate A1  
Set Mode to Auto  
Turn on any of A2-A8 to test A1 close  
Turn off all of A2-A8 to test A1 open

# SENSOR A1



Set to System Address A (S1 = OFF, S2 = OFF)  
Set to Tool Address A1 (S4 = ON, S5 = OFF, S6 = OFF)  
Open any of A2-A8 to close A1  
Test it manually - ON / OFF to control Gate A1 and Switch A  
Set Mode to Auto  
Turn on Tool A1 to open Gate A1  
Turn off Tool A1 to Close Gate A1

# REMOTE A1



Set to System Address A (S1 = OFF, S2 = OFF)  
Set to Tool Address A1 (S3 = ON, S4 = OFF, S5 = OFF)  
Open any of A2-A8 to close A1  
Test it manually - ON / OFF to control Gate A1 and Switch A

## 5. Hardware Installation

Once the RF communication between each iVAC Product is confirmed, you are ready to install each iVAC Product to its designated position.

For Tool Plus / Tool Advantage Sensor:

The Pro Tool Plus / Tool Advantage senses a magnetic field. It must be mounted 12" to 18" away from any source other than what you want to detect. This includes motors, transformers, power lines behind walls or other devices which produce magnetic fields. To test for interference, set the Pro Tool Plus to the OFF position and the power tool OFF. The LED will flash if there is interference.

Observe the activity of the LED at the front panel of the sensor:

1. When power tool is OFF - LED must be steady OFF

If LED is flashing when power tool is OFF, move the sensor further away from wall outlet, power panel, other power cables or power tools

Adjust trim pot on sensor if necessary. CW to reduce sensitivity, CCW to increase sensitivity

2. When you turn on power tool - LED shall flash for a few second then steady ON

Adjust trim pot on sensor if necessary. CW to reduce sensitivity, CCW to increase sensitivity

3. When you turn off power tool - LED shall flash for a few second then steady OFF

Adjust trim pot on sensor if necessary. CW to reduce sensitivity, CCW to increase sensitivity

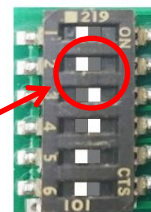
For Blast Gate:

1. Please make sure the blast gate and ducting are grounded properly before powering up the gates. Otherwise the static charge accumulated in the ducting may cause static damage to the gate and power adapter



2. If S3 is set to OFF (default), the blast gate will close 50 seconds after it gets a signal to close. If S3 is set to ON, the blast gate will close 2 seconds after getting the signal to close.

**S3 must be in the ON position for the normally open blast gate address 1.**



For all Ivac Products:

Please remove power to the product before making any DIP switch position changes. Once done, reapply power. This will ensure that the switch positions are read by the products.