

# SafePASS – Perimeter Security System

## Installer - Frequently Asked Questions

These are answers to typical questions for assisting you in impacting the job prior to offering a proposal to the customer. For full details on installation, please read the Series 3000 Technical manual. It is available on our website for download and viewing in Adobe PDF format. It can also be printed. Go to [www.schoolleader.com/Downloads\\_ProductDownloads.htm](http://www.schoolleader.com/Downloads_ProductDownloads.htm)

### **Are the door scanners water proof?**

The SafePASS scanners are water resistant but not water proof. They use a sealed membrane for the keypad and front face which prevents water from entering the electronics. However, the unit must be protected from direct rain. Ideally, you want this device installed in a vestibule area. If that is not available, have it under a roof structure such as a car port or porch. If that is not an option, then you will need to provide some sort of weather resistant “housing” to protect the unit from direct rain and sun. It is important to keep the general environment near the scanner dry because moisture on the scanner and your hands can hinder the ability for SafePASS to obtain an accurate finger image.

### **Can the units withstand extreme temperatures?**

Like most electronic devices, the internal electronic components will begin to become unreliable at temperatures above 110F or below 32F. Although the unit will not be damaged, it may not function properly at these temperatures. Regardless, ALWAYS install the unit out of direct summer sun. Surface temperatures can easily exceed 130F and damage the unit. If you are in a climate where daytime temps regularly stay below 32F, it is recommended that the unit be installed in a protected housing. If daytime temps regularly stay below 20F, it is recommended you mount this system in an inside vestibule area rather than directly outside.

### **Does the SafePASS starter kit include wiring and an electronic door latch?**

No. The Starter kit includes the scanners, software, installation support, and training. Everything else needed to setup the infrastructure of your system will be provided by you, including; communication cables, power cables, electronic door latches, DC power transformers, and labor to install. Also, local fire codes may require emergency exit buttons, etc. This varies from city to city. You may need to talk with your local Building Dept for details on fire code requirements.

### **Can we use Power-over-Ethernet (PoE) to simplify the wiring setup?**

No. We recommend you use separate cabling to transmit power.

### **What if I don't understand how to hookup the SafePASS scanners?**

We are here to assist you with any setup questions. The starter kit purchased by the customer includes all the necessary technical support to get SafePASS up and running. Even though the hookups for our door controller use industry standard connections, we are here to assist and answer any questions you have during the installation phase.

### **Where should I locate the unit?**

Install the scanner on the wall on the latch side of the door at a height where the average person will look DOWN to place their finger on the glass. A common mounting mistake is to install it too high. It will be easier for the user to properly place their finger on the glass if they can see the glass surface. Set the top of the unit no higher than 5ft (60 in). The keypad is not used by the customer and is only needed for occasional programming steps.

### **What are the wiring requirements needed to hookup the SafePASS scanners?**

Basically, there are three wire connections needed for a Series 3000 scanner to operate:

1. An independent DC power source with power on/off ability. The unit calls for 9vdc. The Series 3000 incorporates its own onboard voltage regulator. As a result, you can use a less expensive unregulated power supply if desired. However, be sure not to use an unregulated power supply that exceeds 9vdc. Also, since this unit has memory chips and

logic circuitry in it, the possibility for “freeze-ups” exist. There is no power switch on the unit, therefore, provide a convenient means for the user to cut power to the unit via a switch, breaker, or easy access to the plug-in transformer.

2. Data connection providing Ethernet communications. Use a Cat5 twisted pair cable terminated with RJ45 connectors to provide this data link. The Series 3000 has an onboard network card and an RJ45 connection port. The other end should be terminated at a network switch common with the computer which will host the SafePASS software. Do not use a hub repeater anywhere on the network where the biometric software is running. Do not separate the unit and the host computer by more than one switch. These can make the communication unreliable.
  
3. Two wire control connection from the Series 3000 to the electric door latch. The Series 3000 has a relay control onboard and will directly control the door latch for you. However, you should not try to power the latch from the same power source as the Series 3000. Power the latch with its own independent power source.

### **How do I test the unit to ensure it is working properly after setup?**

Once the Series 3000 is installed, it should be tested for connectivity to verify proper wiring. You will not be responsible for installing the SafePASS software or configuring the settings. This will be done by a SchoolLeader technician remotely with the customer. There are only two “programming” steps to follow before completing the job.

1. Select and program an IP address for the device. The actual static IP address used will depend on the configuration of your network and must be assigned by your network technician or system administrator. NOTE: When the Series 3000 is first turned on you are prompted to enter the IP address. If not, you can force the IP address prompt by holding down the F1 key while you power on the device.
  
2. Test communications. Once the IP address is installed, do a “ping” test to verify network communication is working and the wiring is valid. A Ping test can be performed from any PC on the same network as the Series 3000. Open a Command window on the PC and type: PING <Ip Address>. You should receive 5 successful pings. If you do not, a wiring fault is probably to blame. Recheck the connections or contact SchoolLeader support for assistance.

Final advice before finishing: Double check the two wire connection between the latch and control board on the Series 3000. You cannot test the latch until after we install the software. To avoid the need for a return trip, ensure the power/neutral configuration of your wiring is correct on both terminating ends.