

**Keithley Instruments**  
28775 Aurora Road  
Cleveland, Ohio 44139  
1-800-935-5595  
[tek.com/keithley](http://tek.com/keithley)

## Introduction

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### **⚠ WARNING**

**These procedures must be performed by qualified service personnel. Failure to recognize and observe normal safety precautions may result in equipment damage, personal injury, or even death.**

This document provides installation instructions for the Keithley Model 4200-PA Remote Preamplifier and Model 4225-RPM Remote Pulse Measure Unit onto the Model 4200-MAG-BASE and Model 4200-VAC-BASE. Read through this document and make sure all components required to complete the installation are available before proceeding. For connection to the manipulator and instruments, see the Model 4200-SCS Reference Manual for more details (manual number: 4200-901-01).

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### **⚠ WARNING**

**Turn off the power from all the connected instruments and disconnect power cords. Make sure all power is removed and stored energy in external circuitry is discharged. Failure to remove all the power from the instruments may result in equipment damage, personal injury, or even death.**

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### **NOTE**

The 4200-SCS comes with all the tools required to properly install the 4200-PA to the base as described in this document. Also, the 4225-RPM comes with a 3/32-inch hex key L-wrench (TL-32) to mount the base as described in this document.

The 4200-MAG-BASE and 4200-VAC-BASE provide a secure mounting surface for placing a 4200-PA or a 4225-RPM on a probe station platen.

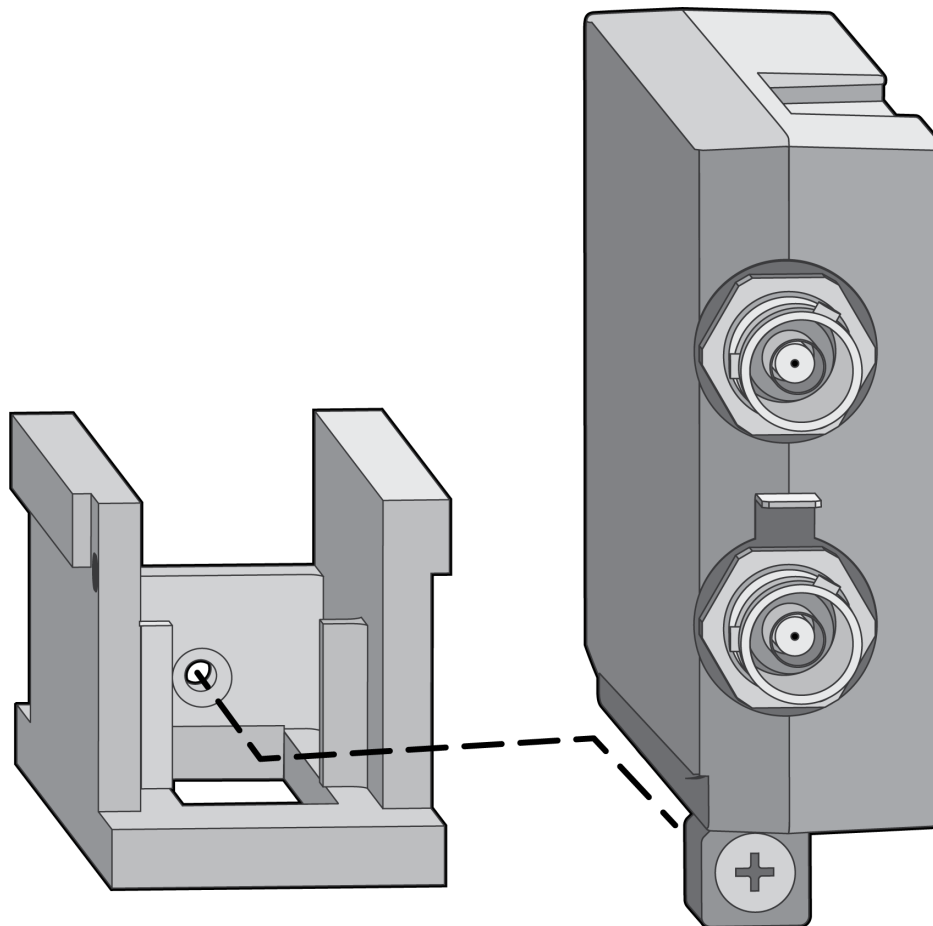


## 4200-PA installation onto the 4200-MAG-BASE

*To install the 4200-PA onto the 4200-MAG-BASE:*

1. Slide the captive screw assembly onto the bottom of the 4200-PA.
2. Install the 4200-PA onto the base and secure it with the captive screw as shown in the following figure.

**Figure 1: Install the 4200-PA onto the 4200-MAG-BASE**



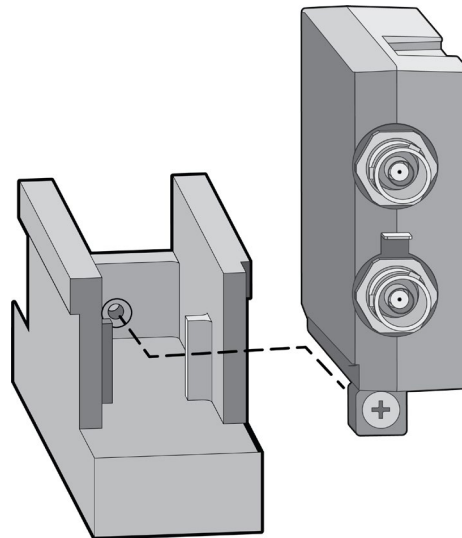
3. Place the base on the probe station platen.

## 4200-PA installation onto the 4200-VAC-BASE

*To install the 4200-PA onto the 4200-VAC-BASE:*

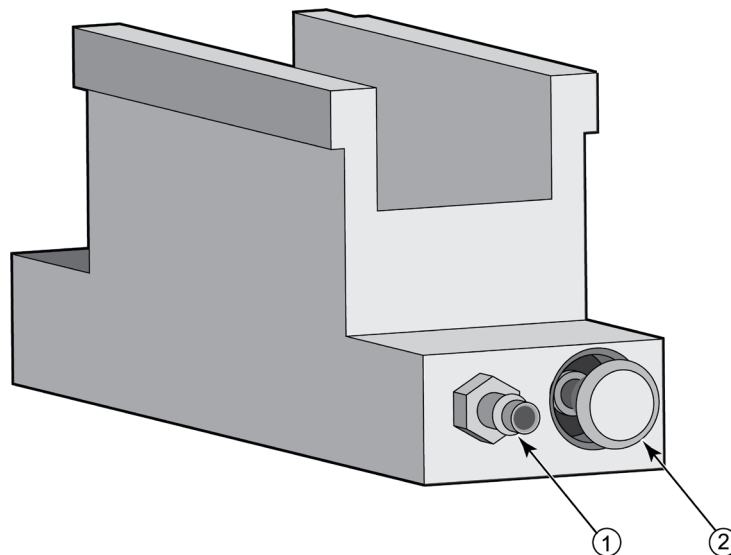
1. Slide the captive screw assembly onto the bottom of the 4200-PA.
2. Secure the 4200-PA to the base with the captive screw as shown in the following figure.

**Figure 2: Install the 4200-PA onto the 4200-VAC-BASE**



3. Place the base on the probe station platen.
4. Route a vacuum hose to the hose fitting (1) on the base.
5. Apply a vacuum to the base. If the base does not securely hold in position, reposition the base on a clean flat surface and retry.

**Figure 3: 4200-VAC-BASE fitting and control valve**



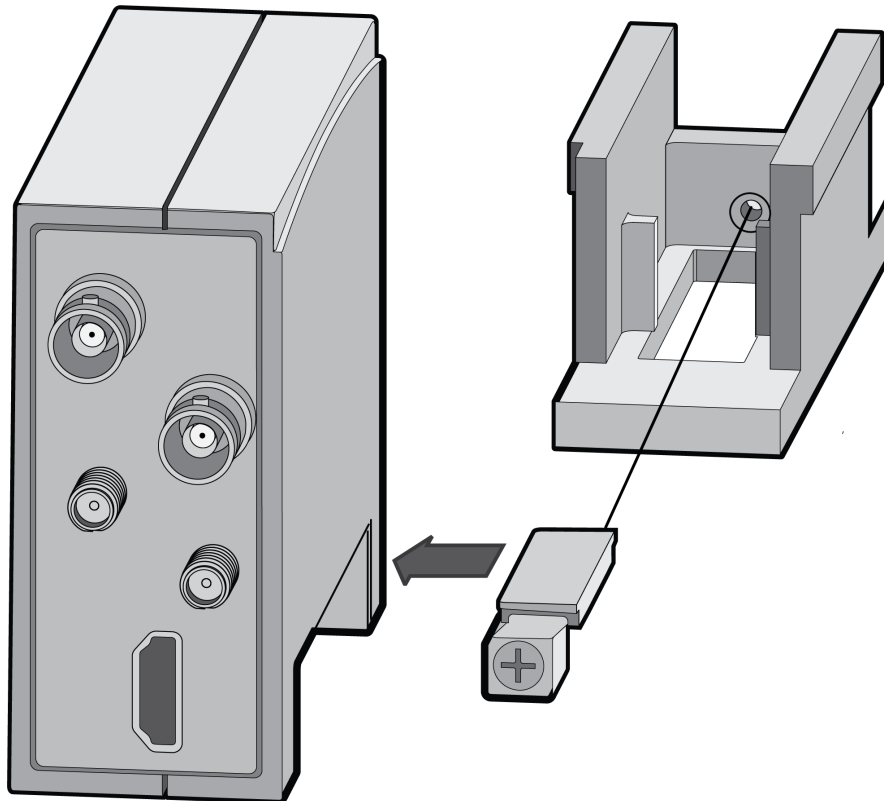
6. To remove the vacuum base, press the control valve (2).

## 4225-RPM installation onto the 4200-MAG-BASE

*To install the 4225-RPM onto the 4200-MAG-BASE:*

1. Slide the captive screw assembly onto the bottom of the 4225-RPM.
2. Secure the 4225-RPM to the base and secure it with the captive screw as shown in the following figure.

**Figure 4: Install the 4225-RPM onto the 4200-MAG-BASE**



3. Place the base on the probe station platen.

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### **⚠ WARNING**

During final placement of the 4225-RPM on the 4200-MAG-BASE, make sure that there is a minimum of two inches or five centimeters of space between multiple RPM base assemblies.

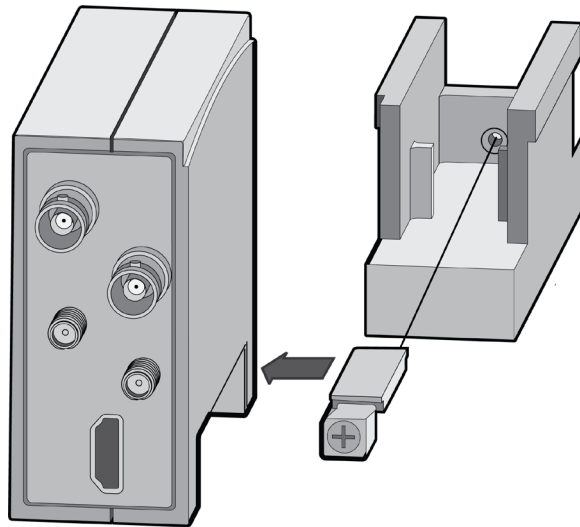
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## 4225-RPM installation onto the 4200-VAC-BASE

*To install the 4225-RPM onto the 4200-VAC-BASE:*

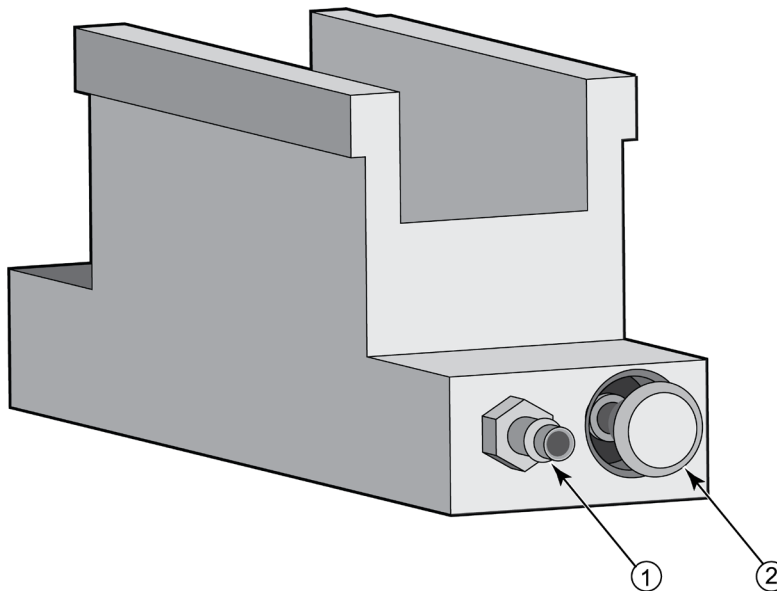
1. Slide the captive screw assembly onto the bottom of the 4225-RPM.
2. Secure the 4225-RPM on the base with the captive screw as shown in the following figure.

**Figure 5: Install the 4225-RPM onto the 4200-VAC-BASE**



3. Place the base on the probe station platen.
4. Route a vacuum hose to the hose fitting (1) on the base.
5. Apply a vacuum to the base. If the base does not securely hold in position, reposition the base on a clean flat surface and retry.

**Figure 6: 4200-VAC-BASE fitting and control valve**



6. To remove the vacuum base, press the control valve (2).