

Preparing to install your 6135A/PMUCAL Calibration System

Application Note

If you arrange for a Fluke Calibration expert to visit your site to help you install your 6135A/PMUCAL system, there are some steps you should take beforehand to make the installation run smoothly. This application note explains the pre-installation actions. If these actions are completed ahead of time, you help to ensure that the Fluke Calibration expert has enough time to complete and fully test the installation with you.

For details about installing and using a 6135A/PMUCAL Calibration System, please refer to the Operator's Manual on the CDROM located in the accessory box in the 6135A/PMU Calibration System shipping crate. The operator's manual is also available from the Fluke Calibration website. You'll find detailed installation instructions in chapter 2.

Install the GPS antenna

Install the Symmetricom roof-mounted GPS Antenna. For instructions, refer to the User's Guide on the Symmetricom CD.

The CD can be found on the product manuals CD located in the accessory box in the 6135A/PMU Calibration System shipping crate. The antenna is supplied with 20 m of cable. If this is insufficient to reach your chosen antenna position, either fit a longer cable as described in the Symmetricom documentation or contact your Fluke Calibration representative.

The GPS receiver antenna is provided in the accessory box. An alternative 12 V compatible antenna can be used, but antennas not rated for 12 V will be damaged.



Choose an appropriate location for the system

The site for the installation must allow at least 4 inches (100 mm) clearance between the 6135A/PMUCAL Calibration System and any objects that could restrict air flow. Refer to the “General Specifications” section of the Operators Guide for environmental condition limits.

Make sure there is a grounded power supply

The 6135A/PMU Calibration System must have a grounded power supply. Three independent standard power outlets are required at the site of the installation. Refer to the “General Specifications” section of the Operators Guide for details about input power requirements. The specific requirements for power are voltage: 100 V to 240 V with up to $\pm 10\%$ fluctuations; frequency: 47 Hz to 63 Hz; maximum consumption: 3,500 VA Max (1.2 k VA each outlet to share the system’s electrical load).

Gather the additional equipment you will need

You will need the following items to configure the server PC. You can remove them after the installation is complete.

- VGA PC monitor
- USB keyboard
- USB mouse

You will also need:

- A separate PC to host the 6135A/PMUCAL system client software.
- A PMU conforming to the IEEE C37.118.1, 2005 or IEEE C37.118.1, 2011 standards. The PMU must be configured as required by the PMU manufacturer.

Establish a network connection (if desired)

The 6135A/PMUCAL Calibration client and server PCs may be linked via a local or wide area network so you can operate it from a remote location. If you require this functionality, the installation site must include direct access to a network

connection. Alternatively you can establish a direct Ethernet connection. Connecting the Client PC to the Server is described in Chapter 2 of the Operator’s Manual.

If you will be connecting the 6135A/PMUCAL system to a network, please make sure that a network administrator is on hand to set up IP addresses on the first day of the Fluke Calibration expert’s visit.

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Electrical	RF	Temperature	Pressure	Flow	Software
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