Installing the MCPA Counter USB Hub

AccuSizer® SPOS Systems

INTRODUCTION

The newer counter box introduced into the Entegris AccuSizer product line is referred to as the multi-channel pulse analyzer, or MCPA counter. This replaced older counter boxes we now refer to as legacy counters. Your MCPA particle counter may include the USB hub shown in Figure 1. This technical note provides guidance on why and how to install the USB hub.

Figure 1. USB 2.0 Hub.

PURPOSE OF THE USB HUB

The MCPA counter connects to your computer via USB cable. On initial connection, your computer will provide 5 V through the USB cable to initiate a connection to the MCPA. However, the MCPA is sensitive to instability on the USB connection (VBUS) that can cause the connection to fail. The issue will appear as an inability for the AccuSizer software to connect to the device. This issue can possibly be resolved by 1) updating Windows, 2) updating your computer USB driver, or 3) installing the external USB hub provided.

INSTALLING THE USB HUB

1. Connect a USB cable from the MCPA to Port 1 on the USB hub. (Ports 1-4 are acceptable as seen in Figure 2.)

2. Connect a USB cable from Port 0 of the USB hub to your computer.

Figure 2. Available ports.

3. From Windows, open Device Manager. Verify that Particle Analyzers and MCPA appear on the list as shown below in Figure 3.
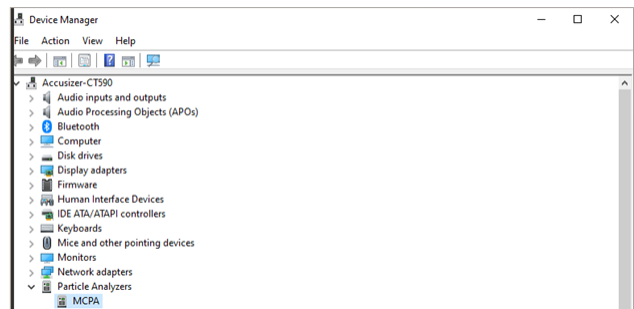

Figure 3. Device Manager display.

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