The Touch Panel Display can control Acuity laser sensors and display their distance readings. Using serial communications, this smart terminal includes software applications for calculating thickness and other dimensions without the need for a computer or software programming.

Product Description

The Acuity™ Touch Panel Display (TPD) is a stand-alone terminal interface for use with Acuity laser distance sensors. These fully-enclosed units replace panel meters, alphnumeric displays and analog controllers by providing a modern interface through a full-color LCD and touch screen. The Touch Panel Display communicates with one or two Acuity sensors using their serial interfaces. Sensors can be easily configured using on-screen buttons to display and scale their distance outputs. Relative dimensions can be measured using a tare function. With dual RS232 serial inputs from two acuity sensors, the touch panel serves as a thickness gauge and display, an application which previously demanded a PC computer and custom software programming. Using a single RS485 interface, the Panel can transmit thickness and dimensional information to external devices.

Built-in USB port
for simple firmware upgrades

The TPD's firmware can be remotely upgraded, without returning the device to the Acuity factory. This document describes the steps for field upgrades of the TPD.

Firmware Upgrade Instructions

1. Go to http://www.acuitylaser.com/TPD/tpd-firmware-update.shtml to download the latest zip file containing the firmware, an installer and these instructions.

2. Unzip the compressed folder and extract the three files to a single location on your PC computer.

3. Use a standard cable (USB 4 PIN A-TYPE to MINI USB 5 PIN) to connect the Touch Panel Display to your computer. A photo of this cable can be seen at http://www.acuitylaser.com/art/TPD-art/usb_cable.jpg

4. Apply power to the TPD according to the specifications in the Users Manual.

5. If this is the first time connecting your TPD to the computer, it will recognize it as a new piece of hardware. Allow the computer to recognize and automatically install the newly-recognized device. At the installation panel window that appears, permit Windows® to automatically find the appropriate drivers for the device from your hard drive. Upon completion, your PC will install the new device as a USB to RS232 converter.

6. Launch the "ScreenUpdate" application file that you previously extracted from the zip file. This program is a bitmap loader which will install the new version of firmware to your TPD. From the pull-down menu, select the appropriate COM port that was assigned to the TPD acting as a USB to RS232 converter. Make sure the "USB Autobaud" checkbox is selected. Click the "Select File" button and locate the new firmware version binary file. Finally, click "Store into SLCD" to begin the installation process. The program will delete the previous version of the firmware and install the new version.

7. Once completed, remove the USB cable only after disabling it by clicking the "Safely Remove Hardware" icon in the bottom right corner of your Windows® screen.

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