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T SERIES WINDOWS CE UPDATE

I.   PURPOSE:

To give instruction on installing new Window CE software in a T Series instrument.

II.   TOOLS:

Computer with Ethernet communication.
USB standard keyboard

III.   PARTS:

Teledyne API Instrument Upgrade Utility
Latest revision of Firmware from Teledyne API Customer Service

CAUTION!

ELECTROSTATIC SENSITIVE DEVICE

DO NOT OPEN OR HANDLE
EXCEPT AT A
STATIC-FREE WORK STATION

The electronics used in T-API analyzers are sensitive to Electrostatic Discharge (ESD).
When working on any T-API device, please ensure that you are properly grounded prior to
handling or touching any electronic circuitry in the analyzers! For more information on how
to protect sensitive components from ESD during handling, please contact T-API customer
service and ask for the ESD Service note number 03-022A.

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IV.   PROCEDURE:

1. The OS Image Update must be completed through the Ethernet connection. Connect the instrument to the computer via a patch cable or a hub by network cable.
2. Locate the Instrument Upgrade Utility install file**, Setup.msi,** and double click. Follow the onscreen instructions. Note: Must have the latest windows update of .net framework installed.
3. Return to your desktop, or where you have downloaded the new Windows CE image file. Open the new file. **Rename the ***.bin file to NK.bin.**
4. Copy down the IP address of the instrument. The IP address can be found by pressing **SETUP** on the instrument's display, **MORE**, **COM** and **INET**. Enter **9-2-9** password and **ENTER**. Press **SET>** till **INST IP:** is displayed and note this number ***.***.***.***.
5. Click the **Start** menu at the lower left-hand of the screen: **All Programs**, **Teledyne API** and **Instrument Upgrade Utility**.
6. The Teledyne API Instrument Upgrade Utility will open on the screen. Click **Next**, **Instrument OS Image** and **Next**. Instrument Firmware Image page will appear. Click the square "**…**". This will allow you to search for the NK.bin file from your desktop, or your saved file. Select the NK.bin file. The Select Target Instrument page will now appear. Type in the IP Address of the instrument, which you copied from step 4, and select **Next.** A confirmation page will show up, click **Next** and **Next** again. The Performing Update screen will appear showing the status of the update. When finished, click **Finish,** and at the next screen prompt click **OK**. Turn the instrument off by the front panel switch. The touch screen will now need to be calibrated continue to the next step for calibrating the display.

Touchscreen Calibration

7. Connect a keyboard to one of the USB ports on the front panel. Turn the instrument back on and hold down the **Left CTRL and Left SHIFT** keys on the keyboard when the screen turns white. Continue holding till the calibration window appears.
8. **Press and release the center crosshair**. A timer function is enabled, and this only allows a 15 second time to <u>start</u> the calibration process. If the timer expires the instrument will continue into its normal operation.
9. A new crosshair will be displayed in the upper left-hand corner of the screen. **Press on the center of the crosshair with one finger**. The Display will prompt you to remove you finger once the point is configured. **Continue this process till all four corner calibrations are completed**.
10. Two buttons will appear in the lower left corner, CANCEL and ACCEPT. Press **ACCEPT** and cycle the power on the front panel. If you press CANCEL, the instrument will boot, but the calibration won't be accepted.

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