**PTB Firmware Upload Process for 831C**

**1.0 PURPOSE AND SCOPE**

The purpose of this document is to provide the detail and instruction necessary to upload the approved PTB firmware and options, and save the sensitivity information into the meter for it to operation in a PTB approved state.

**2.0 AFFECTED DEPARTMENTS**

Manufacturing

**3.0 RESPONSIBILITIES & AUTHORITY**

The technician has the following responsibilities and authority:

* Troubleshoot and correct product as required.
* Communicate concerns to Supervisor or Quality Assurance.
* Request management review of product concerns.

**4.0 EQUIPMENT & MATERIALS**

* 0621.0095 - USB cable

**5.0 INSTRUCTIONS**

1. Connect the instrument to the computer through the USB cable.
2. Run the G4 LD Utility.
3. Find the serial number of the meter you want upgraded and click the 3 dots.



1. Select Upgrade Firmware.
2. Click Choose Firmware File.
3. Navigate to R:\Provo\Engineering\Firmware\831C-PTB and select the file.
4. Click Upload Firmware.
5. Close out G4 upon completion.
6. Refer to D0001.8444 Final Assembly and Test Procedure for calibration of instrument and loading options.
7. Open the LxT831Cert program.
8. Enter the Microphone sensitivity from the cert for the 377B02 microphone included on the order.
9. Click Write Certification
10. Close the LxT831Cert program.
11. Verify that PTB Icon on 831C screen is blue, indicating that it is operating in an approved state. If it is red, see trouble shooting steps.

**6.0 TROUBLESHOOTING**

If the PTB icon does not indicate blue verify the following information is correct.

* PTB firmware (must have “P in name).
* PTB Option is installed.
* NF30 Option should not be installed.
* Sensitivity information is saved into meter.

**7.0 DISTRIBUTION**

This instruction is available to employees electronically via the online Document Control area.

**8.0 REVISION HISTORY**

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| **DCO #** | **REV** | **DATE** | **INITIALS** | **CHANGES MADE** |
| 1868 | A | 1/16/2018 | DPW | Initial Creation |
| 1916 | B | 8/15/2019 | DPW | Clarified instructions for latest G4. |
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