



**TELEDYNE
INSTRUMENTS**

Advanced Pollution Instrumentation

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Service Note

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M100A, M101A, AND M102A SOFTWARE UPGRADE

API recently introduced a new software version for M10XA series analyzers.

The reason for the upgrade was the bug found in DAC CALIBRATION procedure. This bug was in one of the latest versions of the software. Please refer to the table below to find out if your analyzer is among the affected ones. The analyzers with the output range 0...100 mV are the most effected. This failure is less pronounced on 0...1 V output voltage range and negligible on the range 0...5 V.

If you want to replace the software, please contact API customer service department for replacement.

UNIT	SOFTWARE VERSION WITH THE BUG	NEW SOFTWARE VERSION
M100A	1A0H8S02.1_1	1A0J3SO2.1_1
M101A	1A0J0H2S.1_1	1A0J3H2S.1_1
M102A	1A0J2TRS.1_1	1A0J3TRS.1_1

To replace the software in the analyzer, please turn the power off. Take the cover of the analyzer. Remove the CPU card, which is the small card attached to the standard bus bracket with the UV Prom. The UV Prom is covered with a white sticker, which indicates the type of the analyzer, version of the software, and the date the software chip was programmed.

Carefully remove the chip from the board. If you use the flat head screwdriver, please make sure you do not damage the traces underneath of the UV Prom socket. Install a new software into the socket. Reassemble the CPU board in the order reversed of disassembly.

Turn the power on. Please make sure you completely recalibrate the analyzer, because some data will be lost due to the software change.