



801/902 Tape Stain Spacing Improvements

This service bulletin is to inform Galvanic's Production, Calibration, and Service staff of changes needed to improve the stain spacing at the beginning of a reel of lead acetate tape and to prevent stain overlap which causes decreased accuracy.

Background:

Currently some customers are having problems with stain overlap at the beginning of a reel of lead acetate tape on both the 801W and 902 tape analyzers. Galvanic Applied Sciences's R&D department has looked into this issue, and has come up with a set of changes required to help resolve this issue.

Required Changes:

For the 801 and 902 lead acetate tape analyzers, **stop bits** should be set to **100** and **motor runs** to **8**. For the 801, stop bits are changed by pressing 2nd Function-2 on the keypad. For the 902, stop bits must be changed through the software GUI, although stop bits on the 902 automatically defaults to 100, so this change may not be necessary for most 902 units.

Further, the aperture strip size should be chosen to ensure the darkest possible stains for a given concentration range. For example, if an 801 analyzer is to be measuring 0-10ppm H₂S, the aperture strip should be chosen such that the sensor output span on 10ppm H₂S is close to 100mV (sensor output +50mV). For the 902, this sensor output at full scale should be between 125mV and 150mV.

Affected Units:

All units currently in production and calibration should have these changes immediately. For units currently in the field, the customer can implement the first change themselves, as the stop bits and motor runs are easily modified through the keypad. If the first change alone does not resolve customer problems with stain overlap, a larger aperture strip should be installed.