



**SA1371i 902 iSensor Firmware Revision**

This service bulletin is to inform Galvanic's customers and service department of an issue where the 902 sensor fail alarm for tape breakage or running out of tape has failed to activate.

**Background:**

Reports from the field have reported that the 902 iSensor fail alarm does not work as expected for tape break and running out of tape situations.

**Root cause:**

The new 902 iSensor was originally set to 1V to simulate the old style sensor output, but the new 902 iSensor does not suffer from drift problems like the old version did. To fix the issue, we have changed the offset DAC output from 500mV to 250mV to assure a Sensor Fail alarm when the tape breaks or runs out.

**Resolution:**

This revision involves a firmware change to the SA1371i 902 iSensor assembly. The 902i Sensor will now show 750mV output on white tape. The Compensation voltage will also be 750mV.

This change does not affect any other aspect of operation for the sensor block, and assures that the alarm is properly set.

All new sensor blocks as produced from December 16<sup>th</sup> 2005 forward have the new Revision H firmware, and all existing stock was reworked to bring them up to date with the latest firmware.

For field fixes, a Galvanic Applied Sciences service technician can re-program previous revisions of firmware, or the sensor assembly can be exchanged for a new one.