

## **Battery Replacement Instructions for F.W Bell 7000 Series Gaussmeters**

The CR-2032 battery used to retain various settings and the real-time clock in the gaussmeter will become drained after several years and require replacement. Symptoms of a low battery are usually either an Error 81 message or a blank screen at power-up.

The battery is located on the main board behind the front panel and may be accessed by removing the front panel.

### **WARNING!**

- Before opening instrument, remove the power line cord to prevent electrical shock.
- Use precautions to prevent damage from static electricity. Wear a grounded ESD safe wrist strap or at least keep one hand touching the bare metal part of the chassis when touching the battery or PCB during battery replacement.

### **Procedure:**

1. Remove the probe connector nut(s) using a 17mm socket or wrench, being careful to avoid scratching the front panel. See Figure 1 (7010 shown, 7030 is similar with 2 additional channels).
2. Remove the 6 screws around the perimeter of the front panel. See Figure 1.



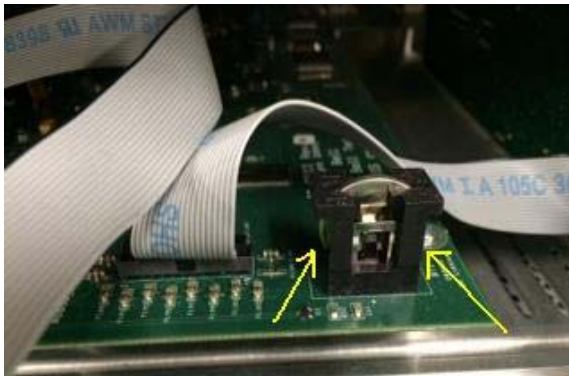
**Figure 1 Remove screws and probe connector nut**

3. Carefully tilt the top edge of the panel forward a small amount and then pull the panel forward to clear the probe connectors.
4. Carefully tilt the panel forward and lay it down as shown in Figure 2. If there are washers on the probe connectors, do not lose them.



Figure 2 Front panel tilted down to access battery (yellow circle)

5. Carefully push upward on the sides of the battery to lift it upward in the battery holder, then grasp the top of the battery to remove it from the holder. Note the orientation and polarity of the battery for proper installation of the new battery.
6. Place new battery into the top of holder and gently push downward so it is seated in the holder.



7. Assemble front panel and hardware in reverse order of disassembly, being careful to not pinch any cables or over-tighten the probe connector nut(s). Only about 1/2 turn beyond finger tight is necessary.
8. This completes the battery replacement and your meter should now be ready for use again. After powering up you should adjust the gaussmeter's internal clock to your local time settings.