Finally eliminate the guesswork from electrocoat troubleshooting!

JP Tech’s “Sub” (or Submersible Data Acquisition Unit) is a patented diagnostic tool that allows you to see everything that happens inside your electrocoat tanks. Test the condition of anolyte cells and electrical connections, pinpoint complex problems (such as rupturing and pinholing) in the e-coat process, assess areas of weakness in your system, and gather information on tank chemistry and film buildup all from one unit sitting right inside. JP Tech’s “Sub” is designed for a wide variety of applications and substrates.

The “Sub” is designed to capture DC voltage, AC voltage and ripple, and current. Problems that would normally be impossible to troubleshoot become simple to see with the data collected by the “Sub.”

All of this information is recorded to a microSD card for analysis on a computer. Charts like the one on the right are built from combining data from each probe (in different locations on a unit) to get a comprehensive view into the E-coat process.
**What can the “Sub” do?**

With the ability to capture 7 channels of continuous data, JP Tech’s “Sub” can detect and help pinpoint a wide range of problems in an e-coat line, such as:

- Ground faults
- Rectifier problems
- Anode membrane problems
- Throw power problems
- Points of rupture

The ability to measure AC ripple and current can give insight into complex problems, such as the AC leakage shown in the chart on the right.

In addition, the “Sub” can be used as a powerful quality assurance tool to certify your e-coat process and discover potential issues before they arise.

**Specifications**

**Inputs:** 7 channels (6 probes, one probe connected to 2 channels, DC & AC)
- 6 DC Voltage - 0-600 Volts
- 1 AC Voltage - 0-600 Volts

**Battery:** Internal Li-ion battery with safety regulation

**Battery Charge:** Min. 14 hr. charge time from full discharge to 100% @ 12V DC

**Power:** 12V DC USB cable for charging

**Trigger Voltage:** 2V DC (Unit will not record until one probe reaches 2V DC)

**Sample frequency:** 500 milliseconds

**I/O Connections:** USB Mini-B; MicroSD Card slot

**Dimensions:** 11”L x 10”W x 5”D

**Weight:** 5 lbs.