



Planting

Test log in production of functional thin film by anodic oxidation method

GW INSTEK

Simply Reliable



PSW's optional data logging feature makes it easy to acquire a long-term test logs with PSW alone.

It is important to obtain test logs of voltage and current in the formation of an anodic oxide film.

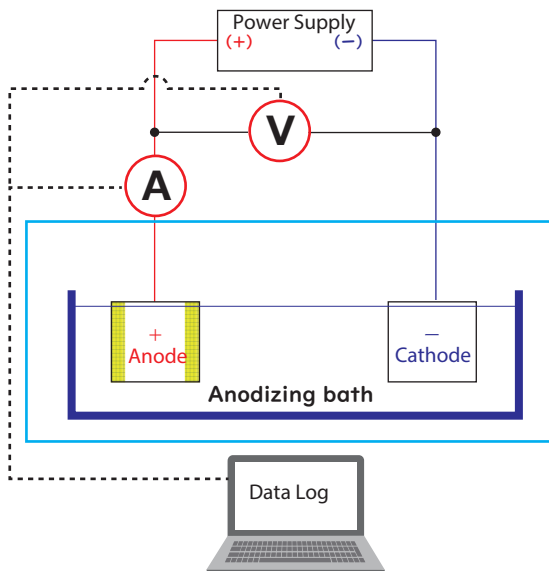
PSW's optional data logging function makes it easy to get a long-time test log with PSW alone by inserting a USB flash memory into PSW.

Normally, the equipment cost is high because log data is acquired by preparing a voltmeter/ammeter or data logger at the output of the DC power supply for each experimental tank. However, PSW's data logging function (option) can complete long-term testing with PSW and USB flash memory.

In anodic oxidation, it is important to obtain voltage, current and time logs.

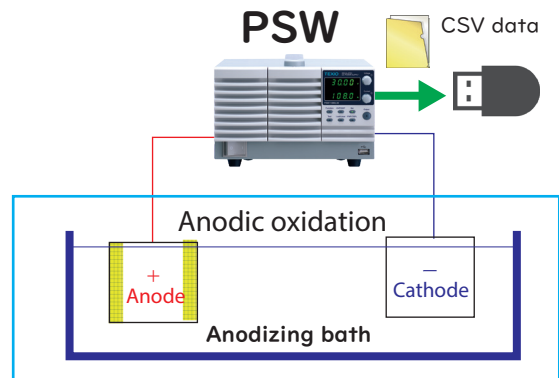
In anodic oxidation, film formation is determined by the electrolytic conditions such as the type of acidic solution, concentration, temperature, and voltage application time.

Conventional method: Save data by PC control



PSW Logging option

Automatically save log to USB flash memory every 1000 data



Voltage/Current/Time Data log can be saved to USB Flash Disk without PC!

If you use 1GB of flash memory, you can save about 40 days worth of data log with a sampling setting of 0.1 s.



1GB=> 40 days!

Feature

- Record every 0.1 seconds (fastest)! Logging function

The data log function of PSW can save its own output voltage, output current, status information in internal memory at setting sampling time (Range: from 0.1 s to 999.9 s).

If you use a external USB flash disk, PSW automatically transfer and save the CSV file every 1000 data to the USB flash disk.

Sampling Time	Time to 8000 data
0.1 s	800 s (13 min 20 s)
1 s	8,000 s (2 h 13 min 20 s)
10 s	80,000 s (22 h 13 min 20 s)
1 min(60 s)	8,000 min (5 d 13 h 20 min)
10 min(500 s)	80,000 min (55 d 13 h 20 min)

Example: CSV Data (Log data)

Sample Period:0.1sec			
Number	Vmeas(V)	Imeas(A)	State(HEX)
0	0	0	0x00000000
1	8.564	7.23	0x00004108
2	9.999	8.572	0x00004108
3	10	6.992	0x00004108
4	9.999	4.471	0x00004108
⋮			
998	10	6.912	0x00004108
999	9.999	7.411	0x00004108