

Highlights

- Automated Environmental Sampling
- New SureCAL Procedures and Drivers
- Trade Shows

NORTHROP GRUMMAN
Electronic Systems

The SureCAL[®] Circle

The Newsletter of
Calibration Technologies
May 2004



Automated Environmental Sampling

Automatically Sample Temperature & Humidity at Your Workstations

Environmental Sampling

SureCAL has added automated environmental sampling support to Test Manager. Recommended hardware is the Veriteq SP-2000. Temperature and humidity recordings to your calibration data sheets are now a simple automated task. Automation will improve accuracy and eliminate forgotten data entries. No more reading and maintaining your circular recording chart. Veriteq offers the NIST Calibrated hardware and setup software for about \$600. For more info on the hardware see www.veriteq.com

Cost Analysis of Data Logger vs. Hygrothermograph

Veriteq has estimated the yearly cost of purchasing and operating a data logger as compared to a hygrothermograph.

For Operator-Time, \$35/ hour (wage + benefits).

DATA LOGGER

\$430 initial price (with lithium battery, doesn't need replacing)

\$ 95 software and cable

\$220 NIST Calibration (once per year recommended)

Total = \$745

HYGROTHERMOGRAPH

\$650 initial price

\$25 Paper chart replacement (yearly)

\$30 Pens and battery replacement (yearly)

\$25 Hair bundle replacement (\$75, once every 2-3yrs)

\$300 NIST Calibration (\$150, twice per year recommended)

\$910 Operator-Time (30 min per week for changing charts, pens, and inspection)

Total = \$1,940

NEW SureCAL PROCEDURES

- Agilent 33250A Function/Arbitrary Waveform Generator
- Agilent 6673A Power Supply
- Agilent E3633A Power Supply
- Agilent N3304A Electronic Load
- Agilent N3306A Electronic Load
- Acterna(TTC) EDT-130 Communications Data Tester
- Boonton 92E RF Millivoltmeter

NEW SureCAL DRIVERS

- Agilent 33250A Function/Arbitrary Waveform Generator
- Agilent 53150A Counter/Power Meter
- Agilent 6031A & E3633A Power Supplies
- Agilent N3300A & N3301A Load Mainframes
- Boonton 4400A Peak Power Meter
- Boonton 4531 RF Power Meter, 1ch

MSC 2004

We thank all who visited with us at the Northrop Grumman booth in Anaheim, CA this past January. Winners of our business card drawings for the World

Clock-Calendar desk unit were: Nor Te Chaing, Primary Standards North America, and Warren Wong, Fluke. Congratulations and a Northrop Grumman laptop PC Roller Bag also went to Arthur Connor, Primary Standards North America, for winning the MSC Door Prize provided by SureCAL.

MEMI 2004

Northrop Grumman will be advertising its products and services at the 2nd Middle East Measurement & Instrumentation (MEMI) 2004 Conference & Exhibition 10 - 12 May 2004, in Bahrain. Please tell your Middle Eastern colleagues to stop by and visit with Gary Jennings in booth E13 to learn more about SureCAL products.

NCSLI 2004

Northrop Grumman is proud to be one of the corporate sponsors of the National Conference of Standards Laboratories Workshop & Symposium 2004 at the Ice Palace Convention Center in Salt Lake City, Utah, July 11-16, 2004. SureCAL will again be joining forces with our sister organization, Space Technology, from Redondo Beach, CA to advertise Northrop Grumman products and services. Be sure to stop by our booth to learn more about recent features added to SureCAL Test Manager Lite for environmental sampling and label printing.