Choosing A Datalogger That Is Right For You

Connecting to Collections Online
Community Webinar

March 6, 2012

What is a datalogger?

- Battery powered device

- Sensor

- Microprocessor

- Not to be confused with a digital hygrometer

Rachael Perkins Arenstein
A.M. Art Conservation, LLC

Cost

- Viable loggers can range in cost from $68 to $740.

- There is a reason why loggers are priced the way they are.

- Do not expect an inexpensive product to perform the same as a high-end product

- There are uses for both ends of the spectrum.

- Don't be penny wise and pound foolish.

- Don't forget ancillary costs.

Rachael Perkins Arenstein
A.M. Art Conservation,

Hardware Specifications

- Operating Range

- Accuracy

- Calibration

- Power Source / Battery Life

- Memory Capacity / Run Time

- Sampling Rate

Rachael Perkins Arenstein
A.M. Art Conservation,

Hardware Specifications (cont'd)

- Start/Stop Options

- Alerts / Alarms

- Display

- Probe

- Size Appearance and Construction

Rachael Perkins Arenstein
A.M. Art Conservation,

Data Retrieval

- **Data Retrieval**
  - Cable
  - Flash drive
  - Portable download device
  - Wireless

- **Software platform compatibility**

Rachael Perkins Arenstein
A.M. Art Conservation, LLC
www.AMArtConservation.com

Data Formats

- Formats for raw data and graphs
  - Proprietary
  - CSV
  - Text
  - html

Rachael Perkins Arenstein
A.M. Art Conservation, LLC
www.AMArtConservation.com

Data Viewing & Analysis

- Raw data in table form

- Download while logging

- Combine/append data sets

- Overlay graphs for comparison

- Statistics for data and data subsets

- Viewable data target ranges

Rachael Perkins Arenstein
A.M. Art Conservation,

Graph Modification

- Graphics
  - Line color
  - Appearance
  - Fonts
  - Background
- Range of axes
- Zooming
- Titles, notes and annotations
- Print settings

Rachael Perkins Arenstein
A.M. Art Conservation,

Overview of Loggers

- ACR Smartreader 2
- Gemini
  - Tinytag View2
  - Tinytag Ultra2
- Hanwell Ml4106
- Image Permanence Institute PEM2
- Monarch Track-It
- Lascar EasyLog

- LogTag HAXO-8
- Onset Hobo
  - U10
  - U12
  - U14
- TandD
  - RTR 503
  - TR-74Ui
- Veriteq Spectrum 2000

Rachael Perkins Arenstein
A.M. Art Conservation, LLC

Don't forget the intangibles

- Service and technical support
- In house capabilities and expertise
- Your own time and sanity

Rachael Perkins Arenstein
A.M. Art Conservation,