Choosing A Datalogger That Is Right For You

Connecting to Collections Online Community Webinar
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What is a datalogger?

- Battery powered device
- Sensor
- Microprocessor
- Not to be confused with a digital hygrometer
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.
Hardware Specifications

- Operating Range
- Accuracy
- Calibration
- Power Source / Battery Life
- Memory Capacity / Run Time
- Sampling Rate
Hardware Specifications (cont’d)

• Start/Stop Options
• Alerts / Alarms
• Display
• Probe
• Size Appearance and Construction
Data Retrieval

• Data Retrieval
  – Cable
  – Flash drive
  – Portable download device
  – Wireless

• Software platform compatibility
Data Formats

• Formats for raw data and graphs
  – Proprietary
  – CSV
  – Text
  – html
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
Graph Modification

• Graphics
  – Line color
  – Appearance
  – Fonts
  – Background

• Range of axes

• Zooming

• Titles, notes and annotations

• Print settings
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
Don’t forget the intangibles

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