

Product testing. Bringing the receipts

Versatile Data Logging Options with the Synergy Nano Controller

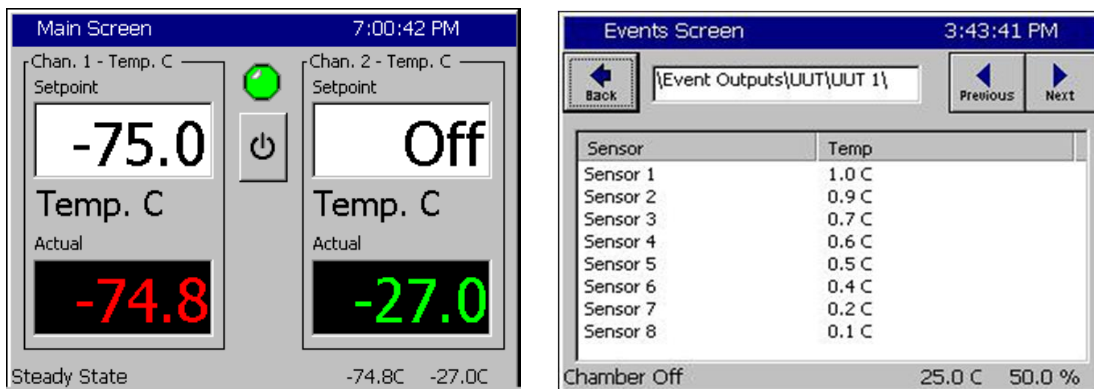
- Flexible logging of one or more sensors
- USB export of logging files for external plotting
- On screen history plot, extendable to a browser screen
- Webchart feature for plotting to a browser screen that be manipulated with mouse
- Graphing/plotting directly to PDF or network printer
- Email of alarms, log data, charts, test progress
- FTP transfer of 'Recipes' results, configuration files, and backups
- Synergy Manager, Software package using the Synergy Server to graphically share data

Product testing is all about verification. Verifying the design, verification of intended operation in production, verification of compatibility with intended environments.

Verification of having met thermal testing requirements often involves bringing receipts in one form or another. The powerful Synergy Nano temperature controller/logger can easily facilitate proof of having met thermal testing requirements, by a number of different, convenient methods.

Here is a short list of eight popular ways that the Synergy Nano temperature controller can make it easier to 'show the receipts' of thermal testing work.

1) Recording and logging of one or more device temperature sensors.



Configurable text log files are an easy, flexible way to preserve and review test data.

App Note 85 <https://www.totaltemptech.com/wp-content/uploads/2023/05/SCAP85.pdf>

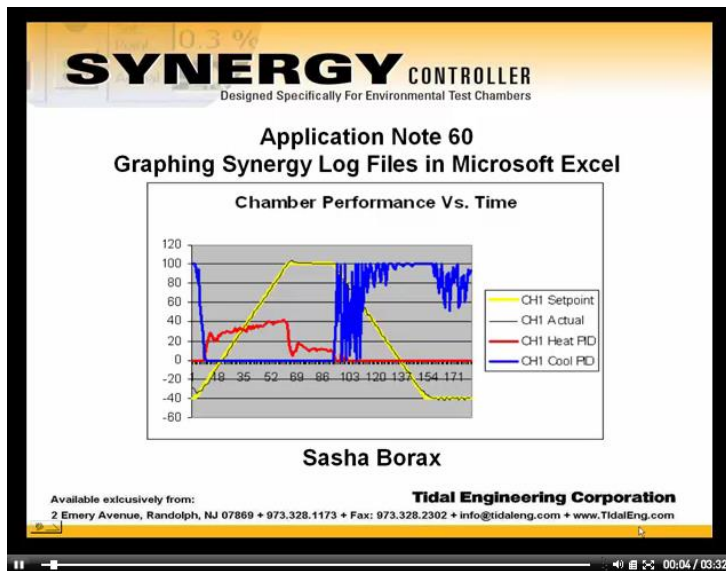
Chainable 16 channel logging module for more sensing points, connects directly to synergy controller:

App Note 72 <https://www.totaltemptech.com/wp-content/uploads/2023/05/SCAP72.pdf>

App Note 162 Network version, hooks up via ethernet <https://www.totaltemptech.com/wp-content/uploads/2024/07/SCAP162.pdf>



- 2) Export of logging data by USB drive or network connection, to be charted in Excel or other graphing application



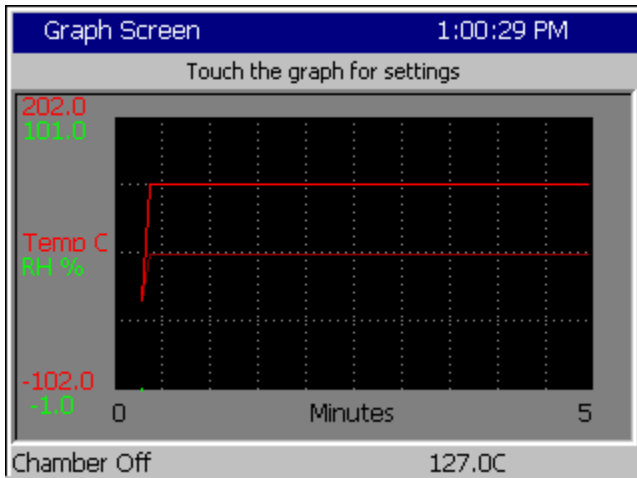
There are many ways to format the data and put it into your own custom plot with MS Excel.

Here is an outline of some good methods for plotting in MS Excel.

App Note 60 https://www.totaltemptech.com/wp-content/uploads/2024/07/App_note_60Logging-plotting-toExcel.pdf

The logging to MS Excel demo video: <https://youtu.be/YtSLna1vaRI>

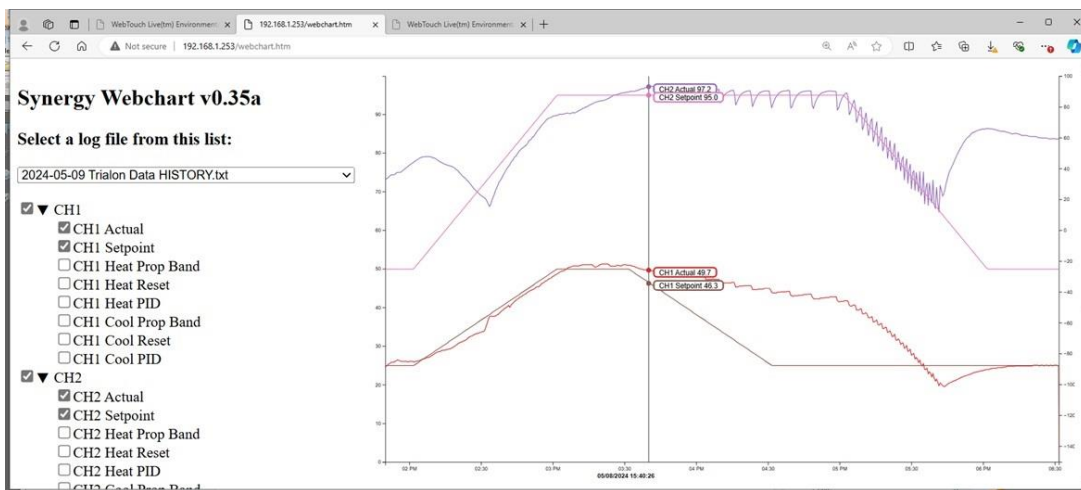
- 3) Controller on screen graph of temperature profile history which can also be displayed remotely on a networked computer using the free WebTouch Remote browser app.



With the push of a button, you can get a configurable-in-advance, quick snapshot of the recent history. The below App note shows how to bring this graphical report or other interactive screens of the Synergy Nano onto a local web browser.

App Note 134 <https://www.totaltemptech.com/wp-content/uploads/2024/07/SCAP134.pdf>

4) Webchart Functionality allows temperature controller to show dynamic charting from the Synergy controller to log/plot data files in a computer browser.

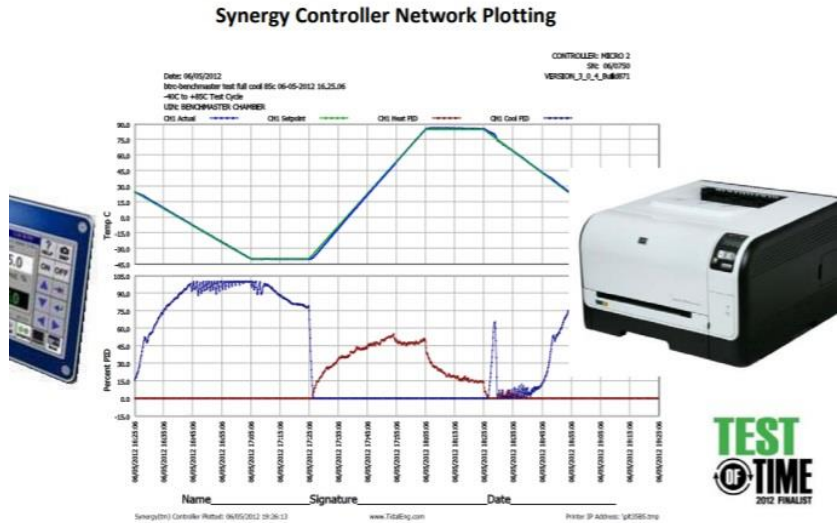


This powerful feature allows graphing of test results onto a local web browser. More detailed, powerful and easily configurable than the graphing from the controller front panel. App note 202 https://www.totaltemptech.com/wp-content/uploads/2024/07/SCAP202-Synergy_Controller_Webchart.pdf

5) Optional Network Plotting Feature that allows printing results graph directly to a networked printer.

Flexible configurable graphical reporting of test data to a local network printer or PDF.

App note 90: <https://www.totaltemptech.com/wp-content/uploads/2023/05/SCAP90.pdf>



6) Ability to text or email alarms, result logs or send to PDF file of graphical data, thus enabling easy cloud storage.

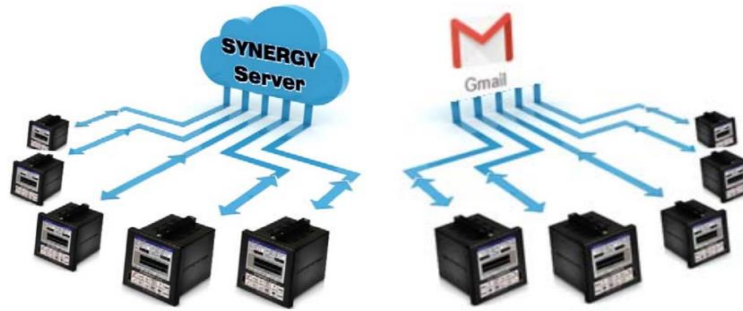
(Item 5, Above Network plotting feature must be enabled to send PDF plots)

Email reporting Feature: App Note 84 https://www.totaltemptech.com/wp-content/uploads/2023/05/Synergy_Controller_App_Note_84_E-Mail_Features_P5.pdf



Safely store and organize test data online with cloud storage functionality

App Note 129 https://www.totaltemptech.com/wp-content/uploads/2023/05/App_Note_129_Synergy_Controller_Cloud_Storage_Features_and_Benefits_A7-1-1.pdf



7) **Transfer files with FTP capability to communicate testing results from Synergy controllers to a host PC.**

Transfer data such as test results, System Profiles or ‘recipes’ and controller backup to locations on local network with this powerful functionality.

App Note 45 <https://www.totaltemptech.com/wp-content/uploads/2024/07/FTP-SCAP45.pdf>

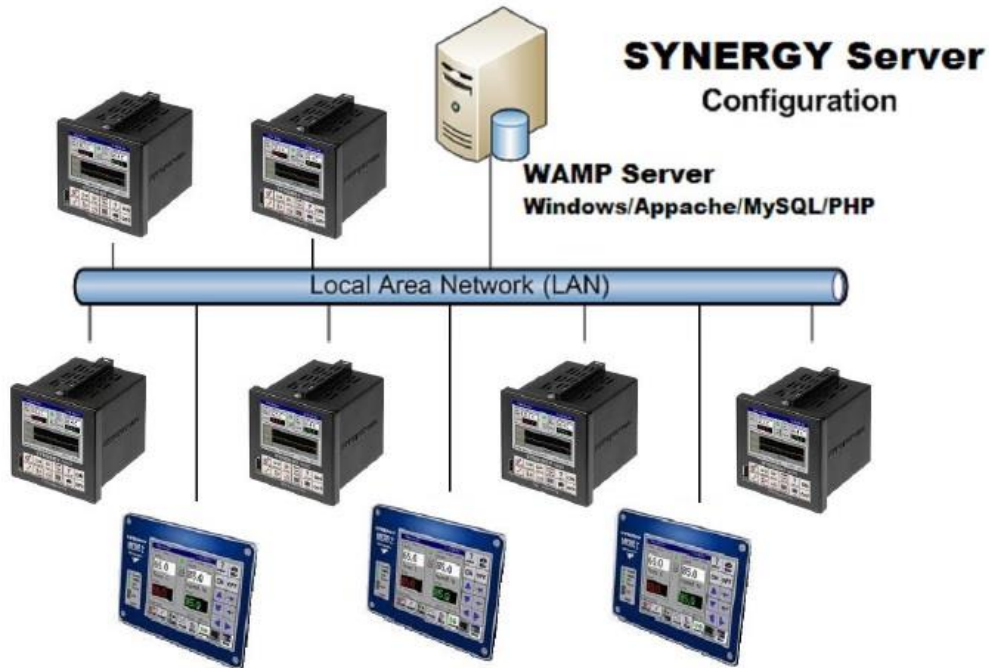


8) **Synergy Server feature enables centralized control of testing “Recipes”. Save test results, and configuration backups for one or several Synergy Nano systems using free Synergy Manager PC based app.**

Installs on any Windows PC or server running VMware Player or VMware ESXi.

App Note 99 <https://www.totaltemptech.com/wp-content/uploads/2024/07/SCAP99SynergyServer.pdf>

SYNERGY Server Application



TotalTemp Technologies is here for you. We are happy to help you with the finer details of making the best use of logging data or other features to meet your requirements and get the best use of the test equipment.

support@totaltemptech.com

sales@totaltemptech.com

888.712.2228 x1

