

Application Note – Greenhouse monitoring

Customer Requirements

The client needed to monitor and maintain optimum greenhouse conditions to maximize crop production and minimize costs.



Equipment

DT500

TCP/IP to serial converter

DeLogger™ 4 Pro

Sensors

Pyranometer, Humidity sensors, Temperature sensors (RTD's)

Datataker Solution

The *dataTaker* DT500 power, signal conditioning and linearization for the RTD's and allows for user define functions to scale the humidity and Pyranometer to engineering units.

The *dataTaker* DT500 data logger measures humidity and temperature at a number of points around the green house. These reading are then recorded and the averages calculated and tested against predetermined levels with alarms. These alarms are used to open or close vents in the green house roof to control temperature and operate mist sprays to increase humidity.

The Pyranometer measured the levels of global radiation received in the green house.

The DT500 is connected to a 10BaseT Ethernet connection via a serial to TCP/IP converter. DeLogger™4 Pro is then used to collect real time data for graphing and to indicate when and which vents have been opened or closed. DeLogger™4 Pro is also used to unload data at regular intervals for archival purposes.

If you need more detail on this application please contact joyce.reid@datataker.com.au

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