

Application Note – Automatic Weather Station

Customer Requirements

The weather station is a valuable tool for a wide portion of the community. From the farmer who needs to know for crop planting to the agricultural scientist researching crop yield or for the daily weather forecasting.

Equipment

DT50
Memory card
DeLogger™ 4 Pro
Modem

Sensors

Vaisala Temperature and Humidity probe
Tipping bucket rain gauge
Anemometer
Wind vane



Datataker Solution

The *dataTaker* DT50 data logger reads the sensor outputs and directly scales them to usable engineering units. The digital output from the tipping bucket rain gauge is input to a high-speed counter. These counters increment even when the *dataTaker* DT50 is in sleep mode to conserve power.

The *dataTaker* DT50 provides powerful mathematical capability. The DT50 can accurately calculate wind direct, wind run or wind rose. These results can then be stored and can be down loaded as required. The low power capability and diverse communications solutions provide for a solution for the most remote site.

The *dataTaker* product range has been selected as the solution of choice for a number of manufacturers of remote automated weather stations.

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

Datataker Pty Ltd - 7 Seismic Court Rowville Victoria 3178 Australia
Tel: 03 9764 8600 +61 3 9764 8600 Fax: 03 9764 8997 +61 3 9764 8997
E-mail: sales@datataker.com.au Web: www.datataker.com