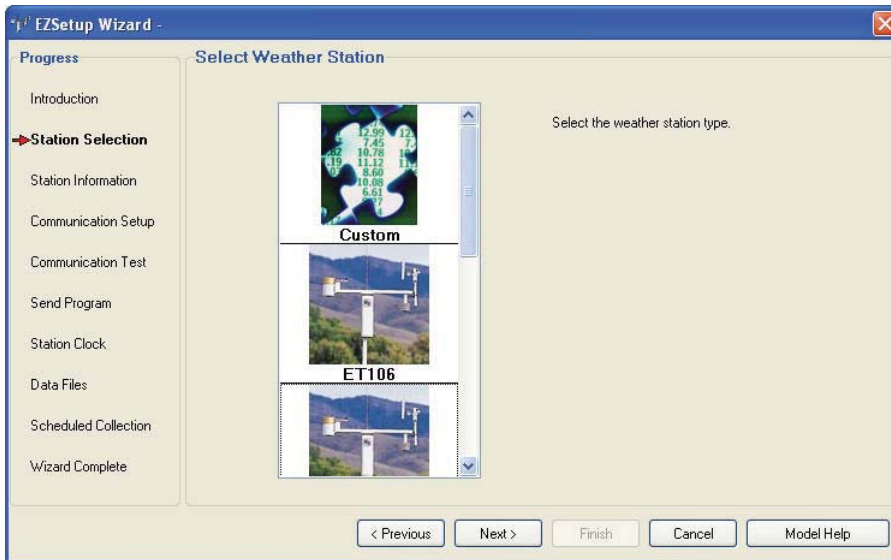


VisualWeather™

Software for Weather Stations



The Visual Weather EZSetup Wizard helps you easily configure a weather station for communications, data collection and report generation.

VisualWeather software is for customers who want reliable, real-time weather data and printed reports without worrying about technical details, such as programming, using client-server technology, or maintaining databases. It allows our ET107, ET106, Toro T107, MetData1, or custom Campbell Scientific stations to be set up in a few minutes. Multiple weather stations are supported.

Programming

- Supports air temperature, relative humidity, wind direction, wind speed, precipitation, solar radiation, soil moisture, snow depth, and leaf wetness sensors
- For pre-configured weather stations, automatically generates program as sensors and communication path are selected

- Includes Short Cut for programming custom Campbell Scientific weather stations

Communications and Data Storage

- Supports direct, short haul, phone, phone-to-RF, RF and TCP/IP communications
- Allows manual or scheduled data collection
- Stores data in a database, which is invisible to the user

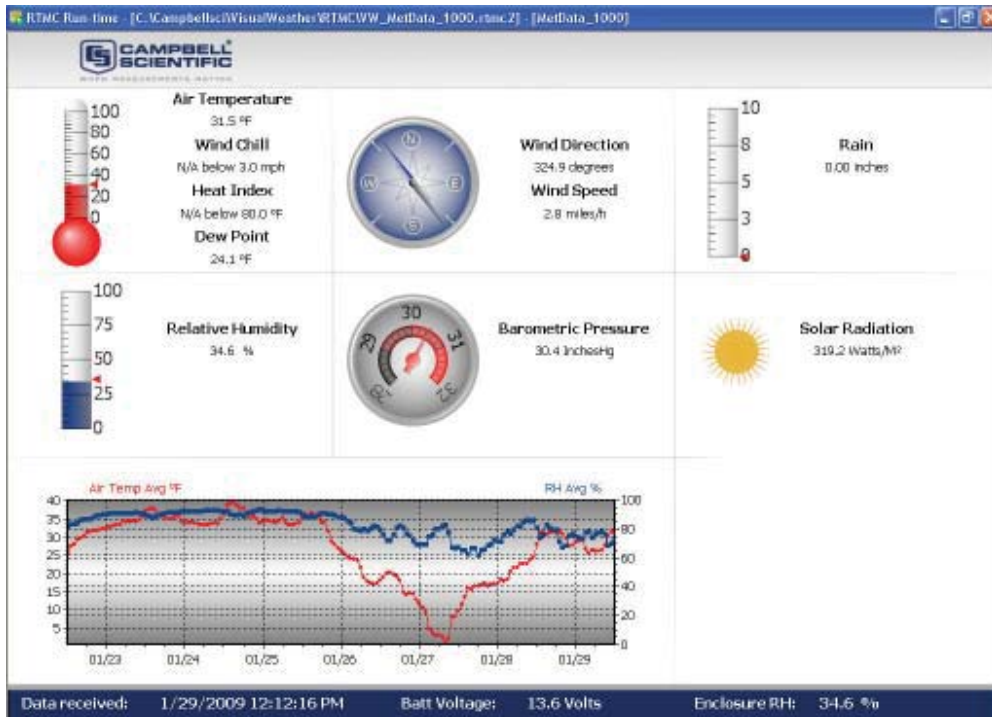
Features

Easy to use all in one package. It provides:

- programming tools for the weather station
 - automated communications and data collection
- real-time graphical displays of current weather
- detailed built-in reports and graphs
 - calculation of ETo and of other agricultural and meteorological derivatives
 - archiving of data

Monitor Real-Time Weather

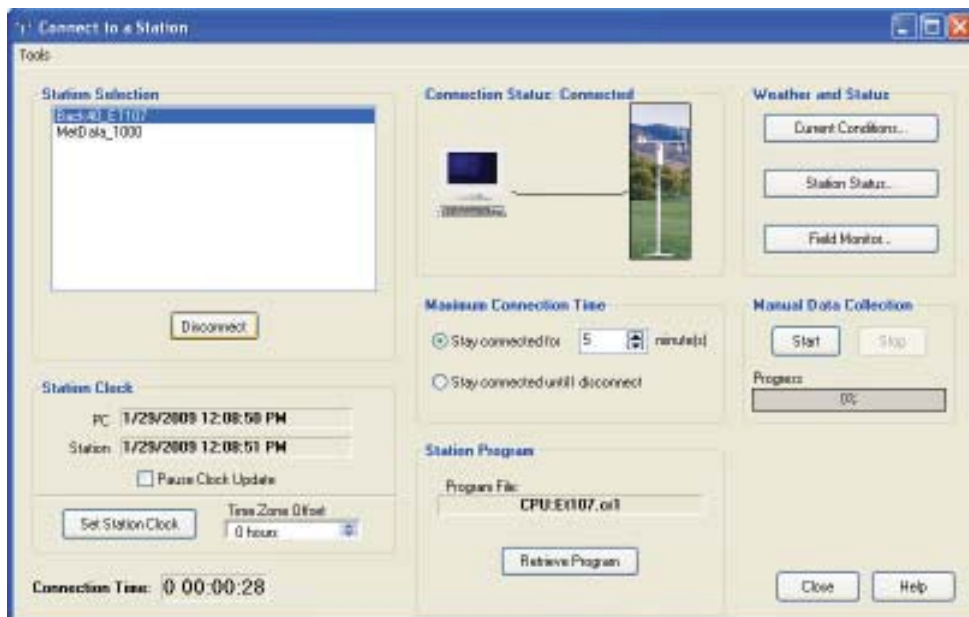
- Uses colourful and attractive gauges to display real-time weather conditions
- Reports weather conditions in metric or US units



Virtual thermometers, gauges and other images display real-time weather conditions.

Monitor Scheduled Calls to All Stations

- Monitors collection status for all stations
- Monitors the station status for each station including information about the datalogger program, the execution of the program, battery voltage, internal temperature etc.



The connect screen is used to connect to a station, view current conditions, monitor station status, and manually collect data.

Report Generation

- Creates daily, 24-hour, 7-day, 30-day, or custom reports for any station currently in the network - either on demand or as a batch job
- Generates historical reports for current stations or stations that have been removed from the network
- Provides graphs as well as tabular data
- Allows choice of metric or US units for each report
- Prints a variety of reports:
 - Station Status - battery voltage, enclosure RH,
 - Standard Weather - temperature, solar radiation, RH, rainfall, wind speed and direction and barometric pressure
 - Additional - leaf wetness, snow depth, soil temperature and soil moisture
 - Special Calculated - ETo, growing degree days, chill hours, dew point, wind chill and heat index.User can also graph data for custom reports.

Note: Actual reports available will depend upon the parameters being monitored by the weather station. The reports provided are designed for practical meteorology. In general they do not comply with the reporting requirements of national weather services. Please contact Campbell Scientific Ltd if you have this requirement.

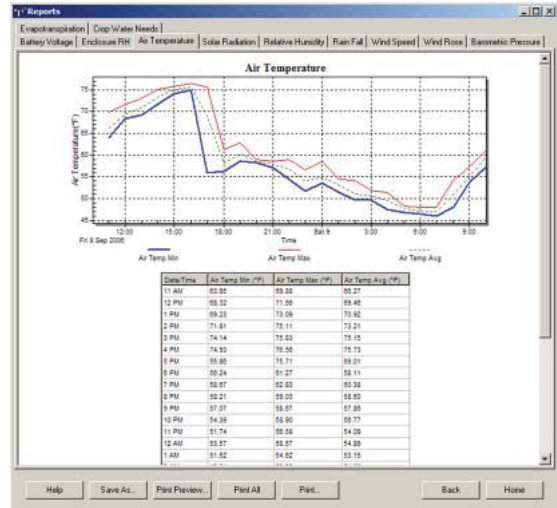
Calculations

Many complex meteorological or agricultural calculations are pre-configured and require only a few parameters such as station elevation, latitude and longitude to be entered. Pre-configured calculations include:

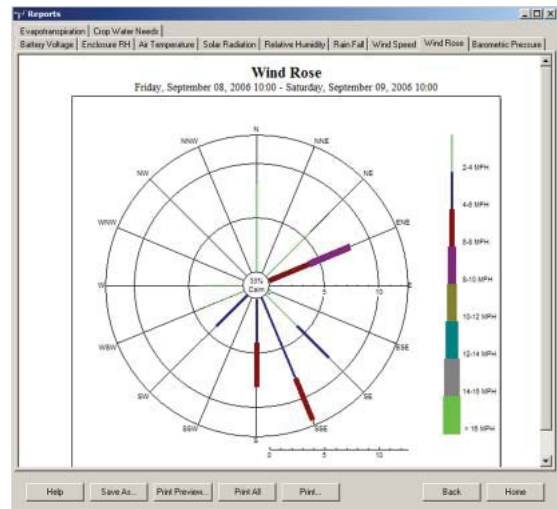
- Evapotranspiration
- Crop watering needs for a specific crop and area
- Growing degree days
- Wind chill
- Dew point
- Chill hours

Data Export and Import

- Supports exporting data from any station (current or past) to user-specified directory for storage or data processing
- Exports data in comma-separated ASCII format
- Imports data from a data file into VisualWeather's database for a specified weather station



Reports provide the data in graphical and tabular format. The example above shows minimum and maximum air temperature.



A wind rose report displays the distribution of wind directions at various speeds.

Web Output

- Creates XML files that have the latest data values
- Generates HTML reports
- Displays real-time data

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