

MultiLog, MultiLogPRO & EcoLog

Weather Stations™

At the heart of the Fourier modular stations are MultiLog, MultiLogPRO or EcoLog data loggers, which allow you to create different configurations to match specific areas of interest:

- For a weather monitoring station, take temperature, humidity, rain, wind and barometric pressure sensors
- For a water quality station, take pH, turbidity, dissolved oxygen sensors
- For a pollution testing station take CO₂, oxygen, and pressure

Quick Installation

Using the waterproof carrying case, users can easily move and deploy the station in different locations. Kids can learn about the changes in weather in a garden, on a school roof or in the heart of the city.



EcoLog Weather Station



This station is specifically designed to be used in primary schools. The heart of the station is the award winning EcoLog data logger. The EcoLog is equipped with five built-in sensors including temperature, relative humidity, barometric pressure, sound level and

light level. In addition, the EcoLog, through its external inputs samples wind speed, wind direction and Rainfall. The station based on this small logger is compact, quick to install and very easy to handle in its waterproof carrying case. Station mobility enables users to investigate interesting phenomena of microclimates, near walls, in the city or in the garden. The station is equipped with data radio transmission to the computer, avoiding wiring between the PC and the station. The station analysis software, WeatherLab, is a graphic, friendly software describing the weather parameters via vivid icons, meters and graphs.

The MultiLog & MultiLogPRO

- ① A powerful data logger, especially designed for education. With over 20,000 units sold world wide, the MultiLog has proven to be the best and easiest to use data collection system. The Weather Station uses the MultiLog due to its high accuracy, 100,000 samples memory and large variety of sensors.

The EcoLog

- ① Hand held, battery operated data logger. The EcoLog includes five built-in sensors. It is a stand-alone product. Users may use it for additional scientific experimenting. In 1998, the EcoLog received the WORLDIDAC award for the best product in computer-based training.

Solar power

- ② No need for batteries or school electricity. The station is powered by the sun. During daylight the sun supplies the stations energy and also charges the station battery, which keeps the station working at night, or on cloudy days. Offering up to eight sensors!

- ③ Rainfall
- ⑤ Wind Direction
- ⑥ Wind Speed
- ① Temperature
- Relative Humidity
- Light Level (EcoLog)
- Sound Level (EcoLog)
- ② Barometric Air Pressure

MultiLog & MultiLogPRO Weather Station

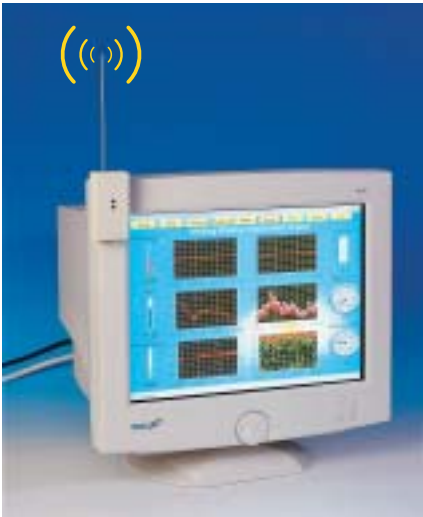


This station structure is very similar to the EcoLog Weather Station, but instead of using the EcoLog the station is based on the MultiLog professional data logger. The MultiLog has 100,000 memory cells and is able to perform long term logging of weather data. It's 10 bit

analog to digital converter and high accuracy make it the best choice for the station-measuring device. Station data is analyzed with the WeatherLab software.

Wireless communication

- ④ A small data transmitter sends the station online measurements to a receiver connected to the PC serial port. This license free communication band allows users to receive weather data within 300 meters from the station. A station located on the roof or in the school yard can transmit to a class or the school cafeteria. One station can work with more than one PC.



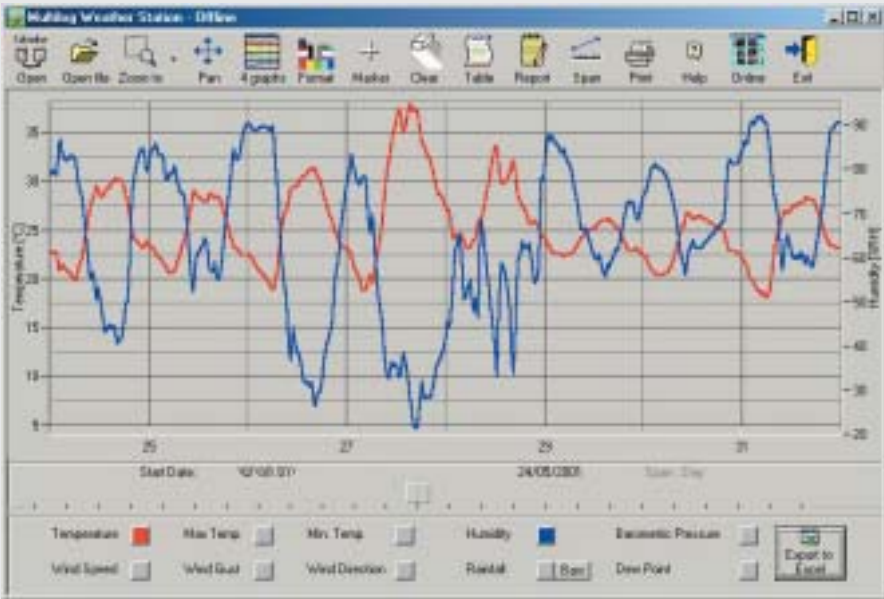
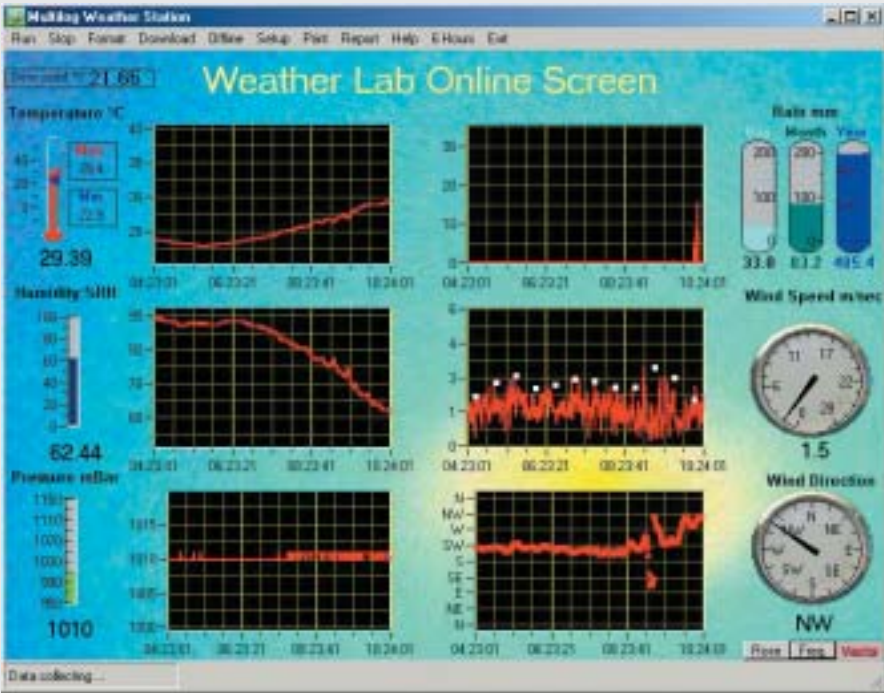
WeatherLab™ 2.0

for MultiLog, MultiLogPRO and EcoLog Weather Stations

View online data, perform analysis functions and produce weather reports

Operating System:
Windows 95/98/
2000/ME/XP/NT

Analyzing the data with the WeatherLab software enables the user to produce weather reports, view on-line data, compare results with earlier data, perform functions like average, minimum, maximum and export data to spread sheets (e.g. Excel). The software can automatically send daily reports to websites. This allows users to easily configure different types of stations by selecting different sensors. For example: For weather - temperature, humidity, wind speed and direction, rainfall, air pressure and for water quality - pH, temperature, dissolved oxygen, turbidity.



WeatherLab 2.0 Features

Online Screen
Online live weather data monitoring with eight simultaneous graph and meter displays - for example:

- Temperature
 - Humidity
 - Barometer Pressure
 - Rainfall
 - Wind Speed
 - Wind Direction
- Or any other sets of sensors

- Option to define and display other vendor sensors
- Daily monthly, yearly rain bars
- Wind direction represented by compass rose, frequency or vector graphs
- Daily minimum and maximum temperature readings
- Dew point calculations

Off-line Screen

- Archive station data reports: calculating totals and averages
- Data viewing in single or multiple graph and table modes
- Analyze weather trends
- Data display tools: zoom, marker, and pan
- Print or export data to Excel
- Automatic daily reports sent to website

