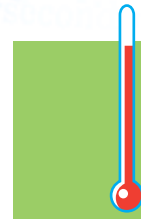


# EcoLog XL™



Sensing your data logging needs

Sensing your data logging needs



EcoLog XL Specifications																						
Inputs	3 - 5 built-in sensors: ECL2-1: Temperature, Light & Sound ECL2-4: Temp., Light, Sound, Humidity & Air Pressure																					
	<table border="1"> <thead> <tr> <th>Sensor</th> <th>Range</th> <th>Resolution</th> </tr> </thead> <tbody> <tr> <td>Temperature:</td> <td>-10 to +50°C</td> <td>0.1°C</td> </tr> <tr> <td>Sound:</td> <td>50 to 110 dB</td> <td>1.0dB</td> </tr> <tr> <td rowspan="3">Light:</td> <td>0 to 5000 lx</td> <td>5.01lx</td> </tr> <tr> <td>0 to 500 lx</td> <td>0.5lx</td> </tr> <tr> <td>0 to 100 klx</td> <td>100lx</td> </tr> <tr> <td>Humidity:</td> <td>0 to 100 %</td> <td>0.5%</td> </tr> <tr> <td>Pressure:</td> <td>0 to 200 kPa</td> <td>0.2kPa</td> </tr> </tbody> </table>	Sensor	Range	Resolution	Temperature:	-10 to +50°C	0.1°C	Sound:	50 to 110 dB	1.0dB	Light:	0 to 5000 lx	5.01lx	0 to 500 lx	0.5lx	0 to 100 klx	100lx	Humidity:	0 to 100 %	0.5%	Pressure:	0 to 200 kPa
Sensor	Range	Resolution																				
Temperature:	-10 to +50°C	0.1°C																				
Sound:	50 to 110 dB	1.0dB																				
Light:	0 to 5000 lx	5.01lx																				
	0 to 500 lx	0.5lx																				
	0 to 100 klx	100lx																				
Humidity:	0 to 100 %	0.5%																				
Pressure:	0 to 200 kPa	0.2kPa																				
	2 x auto-ID external plug-in sensors																					
	Simultaneous sampling of up to 7 sensors																					
Outputs	Serial & USB connection (Full Speed 1.1 specification)																					
Sampling	Resolution: 10 bit (1024 levels)																					
	Rate: from 2 per hour to 50 per second																					
Memory Capacity	4 x 1,000 samples																					
Power Supply	Powered by 2 x 1.2AAA rechargeable battery (built in charger)																					
	Battery life: 1 month in standby mode																					
Features	Display: 2 line, 16 Character LCD Display																					
	Control Panel: 3 buttons: stop, run and scroll samples																					
	Timing Accuracy: LCD display: 10mS EcoLab 3.0: 2µS																					
Software	EcoLab, PC/MAC compatible																					
Operating Temp. Range	0 - 50 °C																					
Dimensions	Weight: 80gr.																					
	Size: 106 x 60 x 19 mm																					
Standard Compliance	FCC, CE																					



## EcoLog XL™ The portable remote data logger with five built-in sensors and an LCD display



We've packed a lot extra into this compact, easy to use, portable pocket sized data logger - it's like a mini weather station. With five built-in sensors and an LCD graphical display, the EcoLog XL is a powerful yet easy to use mini data logger designed for primary school science. Three intuitive keys enable students to stop, run and scroll samples as students monitor changes in temperature, light, sound, humidity and air pressure. You can use it in the classroom, or even outdoors. EcoLog XL can be linked to a computer or stand-alone and set up to collect data.

- LCD Display
- Up to 7 sensors simultaneous sampling
- 5 built-in high quality sensors:
  - Temperature
  - Light Intensity
  - Air Pressure
  - Humidity
  - Sound Level
- Auto-ID of plug-in sensors
- USB and Serial Ports
- Sampling rate from 2/hour to 50/second
- 64K of sampling memory
- Up to 4 stored experiments
- Powered by 2 x 1.2AAA rechargeable battery power (built in charger)



EcoLog XL the most exciting and compact solution for Environmental monitoring, Timing and general data logging in primary and middle school science

With EcoLog XL connected to the computer your measurements are displayed directly on the PC in graph form, meter or snapshot table format.



### Fourier EcoLog XL Bundles

EcoLog XL science bundles provide everything students need for natural science, timing and ecology experiments. Packs include pH, voltage, distance and photo gates sensors as well as EcoLab 3.0 and Sensing Science software.



# EcoLog XL™



Although small in size, this powerful data logger can measure and record environmental data like temperature, humidity and sound level. The EcoLog XL can also connect to photo gates and ultra sonic distance sensors, for measuring time and position.

With five built-in sensors and more than ten possible external sensors, the EcoLog XL is a comprehensive computer based laboratory able to monitor any scientific parameter in primary and middle schools – in the classroom, in the corridor or outside. The EcoLog XL comes in an affordable uniquely designed system.

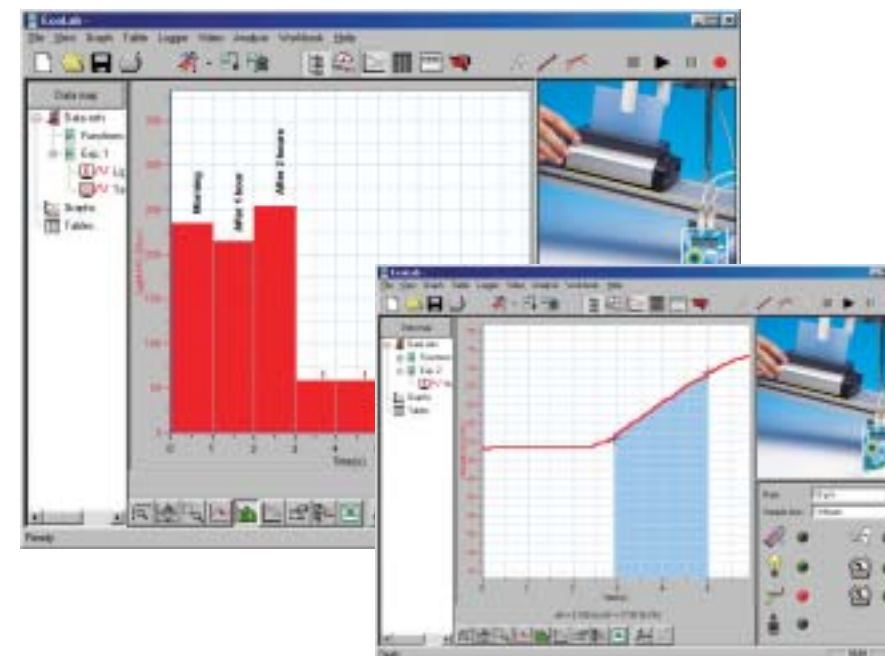
These students really liked how easy it was to gather data about temperature in their environment. The data was retrieved quickly and the portability of the device means experiments can be done outside the classroom and the results seen immediately on the LCD display.



## EcoLog XL Software: **EcoLab™**

New EcoLab analysis software comes with multiple displays, Workbooks, multimedia video and audio

Operating System:  
**Windows 95/98/  
2000/ME/XP/NT**  
  
**Now available for  
Mac OS 9/X**



### EcoLab Features

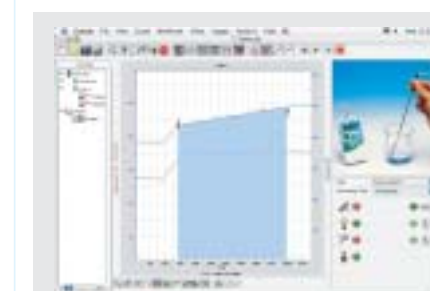
- Graph, video, table, four types of meter displays
- True multimedia reports of your experiment with data, video, audio and text files
- Online or recorded video stream of the actual experiment
- Recording audio comments
- Working with USB Communication port
- Automatic COM port recognition
- Online data transfer and display of data in real time
- Automatic and manual data download
- Stores data on disk files
- Quick export of samples data to Excel
- Programs EcoLog
- Data Analysis:
  - Integral
  - Slope
  - Smoothing (averaging)
  - Statistics
- Measurement readings are facilitated by locating cursors on the graphic display
- Advanced zooming and panning tools
- Predict tool – enables you to graphically predict the results
- Workbooks – Lab manuals with quick EcoLab 3.0 setup programming

The EcoLab packs everything young students need to operate the EcoLog, display the data in fun, colorful formats and get the most out of the experiment with easy-to-use data analysis tools. There's even more - unique video and audio features allow students to view online, or recorded movies they or other students make of the experiments. Now students can participate in e-learning projects as EcoLab allows them to produce complete multimedia Lab reports of EcoLog experiments with real-time synchronized annotated graphs and video. Ministries of Education can also use this platform for teacher training.

For a simple introduction to data measurement, meters including analogue, bar, digital and color, provide a real time reading, sometimes as straightforward as color change. Vivid and clear bar graphs, table and line graphs represent data as a dynamic event. Annotation features are inputted via table, graph and displayed in the bar graph. Data can still be auto-

exported to Excel and database applications. Another great pedagogical tool for teachers is the Workbook, containing HTML worksheets. A Workbook is a Lab activity that gives the student a step-by-step preview of the activity and then automatically configures the EcoLab program and sets up the EcoLog so that the student can begin collecting the data. The students can add their notes or answer questions in text files directly from the Workbook window and add them to the project report, which together with video compile the multimedia report.

Automatic analysis tools such as linear fit, slope, area and statistics allow students to perform a range of data analysis, adding vital pedagogical value to their experiments. A further innovative feature of EcoLab is data pattern prediction. Pausing the display of online data, students can mark on screen predictions and then allow the real data to continue downloading, comparing the real results with their prediction.



Also available for the Mac user