



EcoLogXL™ A user-friendly Science Lab for Primary & Middle School Students

Fourier's EcoLogXL is a user-friendly, compact, pocket-sized data logger designed for primary and middle school science education. Featuring 5 built-in sensors and an LCD display window, EcoLogXL puts a miniature weather station in the palm of your hand.

Additional features of EcoLogXL include: USB ports, 10-bit sampling resolution and three intuitive buttons to monitor changes in temperature, light, sound, humidity and pressure. The simplicity of EcoLogXL is that it can function as a standalone data logger or be connected to a computer. Its portability makes it ideal for use in both the classroom and the field.

Key Features:

- LCD Display
- 5 built-in high quality sensors:
 - Temperature
 - Light Intensity
 - Barometric Pressure
 - Humidity
 - Sound Level
- Sampling from up to 7 sensors simultaneously
- Auto-ID of 2 external sensors
- USB and Serial Ports
- Sampling rate from 2/hour to 50/second of sampling memory
- Up to 4 stored experiments
- Powered by 2 x 1.2 V AAA rechargeable battery or AC/DC power adapter



EcoLab™ Data Analysis Software:

The EcoLab data analysis software, for use with the EcoLogXL data logger, is designed to make science learning enjoyable for younger students. Using EcoLab, students can display their data in creative, colorful formats with easy-to-use data analysis tools. EcoLab engages students with a wide range of multimedia analysis tools, including audio and video features that allow students to view and share online or recorded movies of their experiments.

Students will find EcoLab to be a very user-friendly introduction to data measurement and meters (including analog, bar, digital and color). EcoLab's intuitive dashboard provides real-time readings, indicated by a change of color.

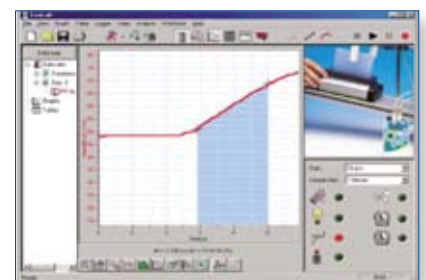
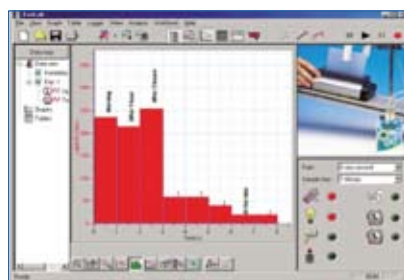
Among EcoLab's features is the ability to auto-export data to Excel or other Office-compatible applications. In addition, it includes a pedagogical tool for teachers called Workbook, which contains HTML worksheet templates. Workbook is a lab template that gives students a step-by-step preview of the activity and automatically configures EcoLab accordingly, so that the student can begin collecting data. Students can add notes or answer questions in text files directly from the Workbook window and add them to the project report.

EcoLab also comes with automatic analysis tools such as linear fit, slope, area and statistics, allowing students to perform a range of data analysis, adding pedagogic value to their experiments. Also featured is data pattern prediction which pauses the online data display, enabling students to record on screen predictions, and then allow the real data to resume downloading; students can then compare the real results with their prediction.

EcoLab™ Key Features:

- Graph, video, table, four types of meter displays
- Multimedia reports of experiments with data, video, audio and text files
- Online or recorded video stream of the actual experiment
- Record audio comments
- Works with USB port
- Automatic COM port recognition
- Real-time online data transfer display
- Automatic and manual data download
- Quick export of data to Excel
- Data Analysis: Integral, Slope Smoothing (averaging), Statistics
- Advanced zooming and panning tools
- Predict Tool – graphically predict the results
- Workbooks – lab manuals with quick EcoLab setup
- Text annotation
- Operating Systems:
 - Windows XP / 7
 - Mac OS 10.4 - 10.6

Ecolab PC/Mac screen shots





EcoLogXL Bundles

		Quantity	Part Number
	EcoLogXL Logger, Sensors & Accessories	1	ECL2S
Includes EcoLogXL Data Logger, 5 Internal Sensors: Temperature, Pressure, Light, Sound and Humidity.			
	EcoLab Software (PC or Mac)	1	
	EcoLab User Guide	1	BK045
	USB communication cable	1	DT239
	AC/DC adapter	1	DT267
	EcoLogXL Experiment Book	1	BK046
	Carrying Case	1	DT240
	Temperature External, -10 to 110 °C	2	DT241
	Physics Experiment Book	1	BK031
	Carrying Case	1	DT061

EcoLogXL Starter Bundle

USA: ECL2S-USA

UK: ECL2S-UK

EU: ECL2S-EU

EcoLogXL Comprehensive Bundle

USA: ECL2T-USA

UK: ECL2T-UK

EU: ECL2T-EU

Technical Specification

Inputs

- 5 built-in sensors:

Sensor	Range	Resolution
Temperature	-10 to 50 °C	0.1 °C
Sound	50 to 110 dB	1.0 dB
Light	0 to 5,000 Lux	5.0 Lux
	0 to 100 Klux	100 Lux
Humidity	0 to 100 %	0.5 %
Pressure	0 to 200 kPa	0.2 kPa

- 2 x Auto-ID external plug-in sensors

- Simultaneous sampling of up to 7 sensors

- **Outputs:** Serial & USB connection

- **Sampling:**

- Resolution: 10-bit
- Rate: 50 samples per second max logging speed

- **Memory Capacity:** 4 x 1,000 samples

- **Power Supply:** 2 x 1.2 V AAA rechargeable battery power (built-in charger) or AC/DC power adapter

- **Battery Life:** 1 month in standby mode

- **Features**

- Display: 2 x 16 Character LCD Display
- 3 button control panel: Stop, Run and Scroll samples
- Digital timing: Accurate to 2 decimal places from A to B

- **Software:** EcoLab

- **Operating Temp. Range:** 0 to 50 °C

- **Dimensions:** 106 x 60 x 19 mm

- **Weight:** 80 gr

- **Standards Compliance:** FCC, CE

- **Optional Accessories:**

- Com. Cable 1.5 m
- Com. Cable 30 m
- Mini USB Com. Cable
- EcoLogXL carrying case

- **Operating Systems:**

- Windows XP / 7
- Mac OS 10.4 - 10.6

Bundle configurations are subject to change without notice



Fourier Systems Ltd. www.FourierEdu.com

Israel
16 Hamelacha St.
POB 11681,
Rosh Ha'ayin 48091
Tel: +972-3-901-4849
Fax: +972-3-901-4999

USA
8940 W. 192nd St.
Unit I,
Mokena, IL 60448
Tel: (877) 266-4066

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