EcoLogXL

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

EcoLogXL is a user-friendly, pocket-sized data logger designed for primary and middle school science education. The unit features five built-in sensors for measuring and analyzing temperature, light, sound, humidity and pressure, and 2 external sensors can also be added.

Key Features

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

Additional features of EcoLogXL include and LCD display window, USB ports and 10-bit sampling resolution. The simplicity of EcoLogXL is that it can function as a standalone data logger or be connected to a computer, and its portability makes it ideal for use in both the classroom and the field.

Experience Science!

EcoLogXL Bundle:

Starter Bundle
P/N:
USA: ECL2S-USA
UK: ECL2S-UK
EU: ECL2S-EU

EcoLogXL with 5 Internal Sensors:
Humidity, Pressure, Light,
Sound & Temperature.
P/N: ECL25

EcoLab Software (PC)

EcoLab User Guide
P/N: BK045

USB communication cable
P/N: DT239

AC/DC adapter
P/N: Based on location

Comprehensive Bundle
P/N:
USA: ECL2T-USA
UK: ECL2T-UK
EU: ECL2T-EU

EcoLogXL with 5 Internal
Sensors: Humidity, Pressure,
Light, Sound & Temperature.
P/N: ECL25

EcoLogXL Experiment Book
P/N: BK046

EcoLab Software (PC)

Carrying Case
P/N: DT240

EcoLab User Guide
P/N: BK045

Temperature Sensor
(-10 to 110 °C)
P/N: DT241

USB communication cable
P/N: DT239

AC/DC adapter
P/N: DT267

Typical Experiments for Both Bundles:
The greenhouse effect / Light absorption / Light transmission
Chemical reactions / Photosynthesis phenomenon

Bundle configurations are subject to change without notice

EcoLab Software Features

- Graph, video, table and meter displays
- Enrich lab reports by adding audio, video and text
- Online or recorded video stream of actual experiments
- Record audio comments
- Online data transfer & display in real-time
- Automatic and manual data download
- Easily export data to Excel
- Data analysis tools: 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 setup programming
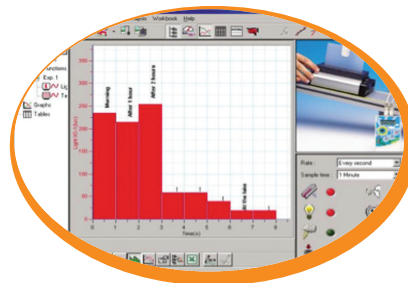- Text annotation

Technical Specification

Inputs:

- 5 built-in sensors:

Sensor	Range	Resolution
Temperature	-10 to 50 ºC	0.1 ºC
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 ºC
- Dimensions: 106 x 60 x 19 mm
- Weight: 80 gr
- Standards Compliance: FCC, CE

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

FOURIER
education