



**Ask Alstein**

Why does the temperature of the liquid change the moment the probe is placed inside?

The probe and the liquid exchange heat until they reach the same temperature. Because liquids conduct heat efficiently, this happens quickly.

Why do some liquids reach that balance faster than others?

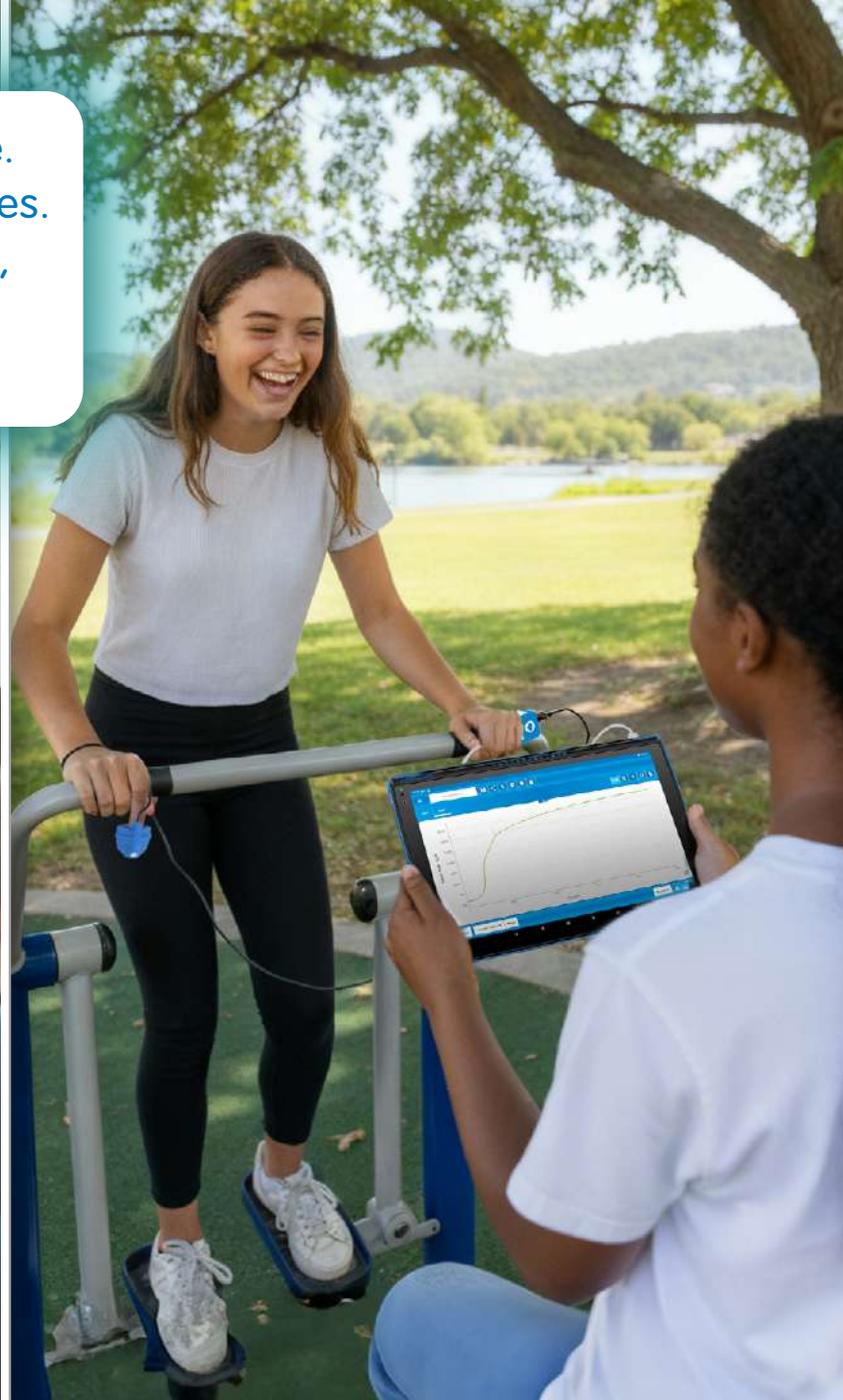
Different liquids have different thermal properties. Heat capacity and thermal conductivity determine how fast they adjust to temperature changes.



einstein™ Catalog  
2026

If your plan is for one year, plant rice.  
If your plan is for ten years, plant trees.  
If your plan is for one hundred years,  
**educate children."**

Confucius



## Fourier 2026 Vision: Empowered Science

Across the world, education systems aim to prepare students for a future shaped by technology and AI, where exploration, questioning, and analysing are essential skills. In 2026, **Fourier** brings this vision to science education helping students and teachers by providing tools that make science education more meaningful. It's not about more technology, it's about better ways to explore, understand, and connect.

To meet this challenge, **Fourier** introduces **Ask Alnstein**, a dedicated AI science assistant designed to support the educators through an intuitive, built-in chat that provides instant, clear explanations on science topics, in any language.

**Ask Alnstein** is seamlessly embedded across all of Fourier's applications, supporting **hands-on science education from anywhere** - in the classroom, outdoors, or at home.

Together with MiLABEX's additional features like the new **Research sub-app**, which helps students design and document research investigations, alongside a **comprehensive free to use library of over 350 AI translated science experiments**, an **upgraded Weather Station experience**, and others, the **einstein™** platform continues to create a meaningful learning experience.

## Teach Science!





**MiLABEx**

- The **MiLABEx** contains 4 sub-apps:
- Lab** - Start an experiment
- Workbook** - Create and share experiments
- Weather Station** - Monitoring climate parameters
- Research** - Conduct a research

**einstein™ Data Loggers**

**einstein™ Tablet3Pro**  
 Android all-in-one science tablet  
 +14 built-in sensors

**einstein™ LabMate II**  
 Transform any screen device into a science lab  
 +8 built-in sensors

**einstein™ LabMate II Lite**  
 Customizable logger *W/O Sensors*

**einstein™ Sensors**

Over 60 sensors that cover all curricula subjects

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# einstein™ innovations New in 2026

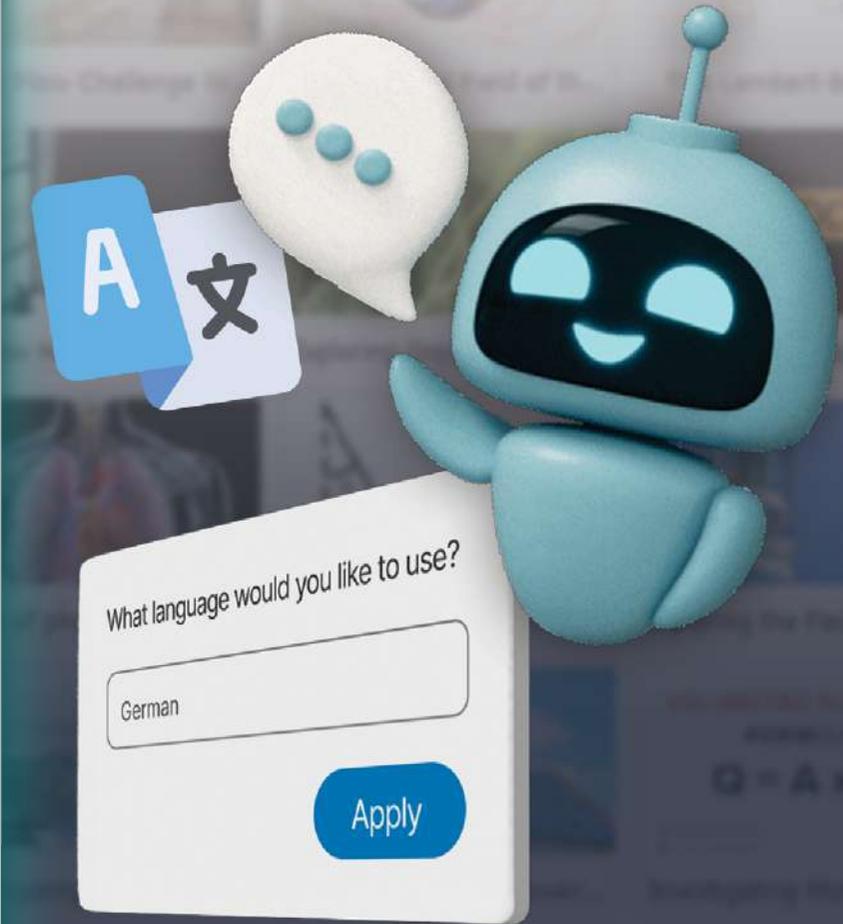
## Ask Alnstein

Is a feature in the MiLABEx software that enables intelligent support and instant accessibility into the science classroom, turning every experiment into a seamless, global learning experience



## AI Translations

Translate workbooks to your local language in seconds



## New Sensors

that cover more curricula topics

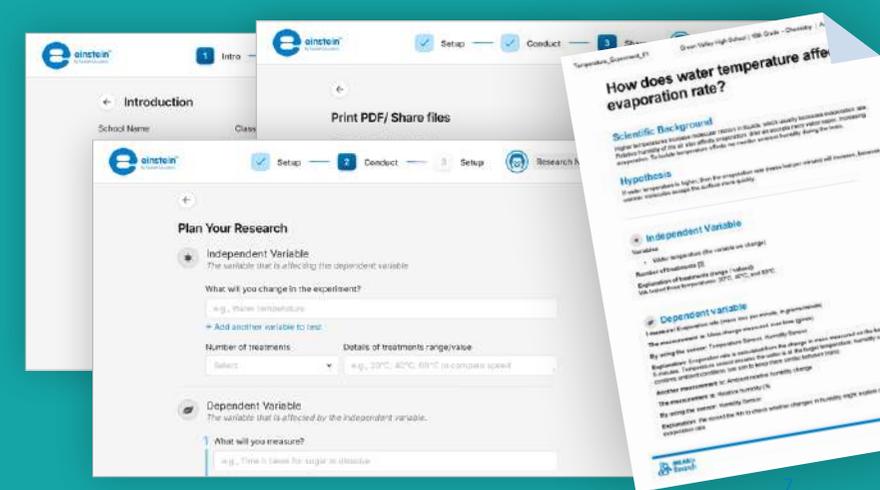


coming soon

## MiLABEX Research

Application integrated in the MiLABEx

The Research sub-app guides the student through the complete scientific process - from defining a question and planning methodology to connecting experiments, analyzing results, and building a full research project within MiLABEx.





# MiLABEx

The **MiLABEx** contains **4** sub-apps:

  
**Lab**  
Conducting science activities

  
**Workbooks**  
Create and share experiments

  
**Weather Station**  
Monitoring climate parameters

  
**Research**  
Build a research

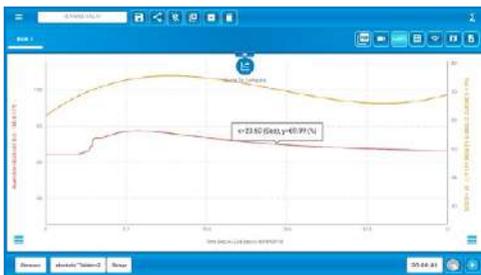
**coming soon**

## The Lab Sub-app - start an experiment

The Lab sub-app is designed to perform a vast range of experiments that suit curricula topics. Plan your experiment, define sensor settings and experiment parameters, run the experiment, analyze data collection, and share it with the teacher and colleagues.



## Examples of Lab's features



The Curve Fit



The Error Bars



Split screen



Prediction



Share to compare

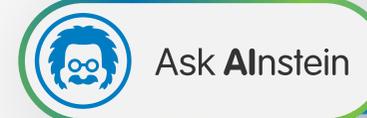


Fast Fourier Transform

- Online/Offline capabilities**
- Connect several sensors in parallel** for multiple experiments
- High sampling rate, long experiment duration**
- Variety of visual display options**
- Multiple data presentations**
- User-friendly interface** for teachers and students
- Advanced data exploration**
- Prediction tool** hypothesis Vs reality
- Split Screen** See above
- Share to Compare** See above

## Ask Alnstein - live in MiLABEx

**Ask Alnstein™** is an integrated AI assistant within the **MiLABEx** software, designed to support teachers and students during hands-on science investigations. It provides instant answers to questions about experiment setup, sensor usage, data interpretation, and core scientific principles - directly within the working environment.



**Alnstein**

Im comparing light intensity from different sources, and the LED light gives a much higher reading than the fluorescent one. Why is that?

LED lights emit more focused and directional light, so the sensor detects higher intensity, especially when it's placed directly in front of the beam.

Does that mean LED light is always stronger?

Not necessarily — it depends on distance, angle, and how the light spreads. Fluorescent lamps emit light more evenly, but over a wider area, which can reduce the

Write your message

**NEW**

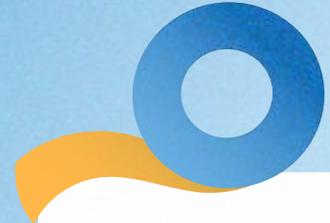
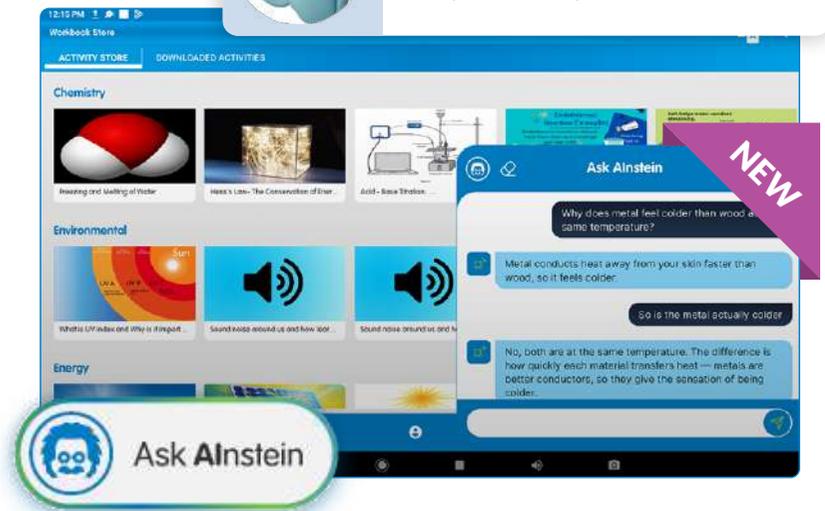


## The Workbooks sub-app

Download & Run experiments directly from the Workbook sub-app

Users can download over 350 activities, free of charge, divided by curriculum topics and languages powered with AI-based capabilities (no need for login or sign up). Each workbook comes with a PDF/video detailing the experiment setup and explanation, as well as a predefined experiment setup.

Translation to your local language empowered by AI

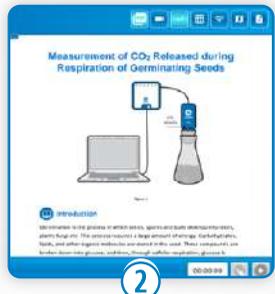


## Design your own experiment

Build and share your content and predefined experiment setup



1 Create and name the activity, description and category



2 Upload content-experiment PDF with detailed information on the activity



3 Define experiment setup-relevant sensors, sample rate, duration, etc.



4 Optional- upload video for more explanations and examples



5 View, save and share with your colleagues and students



## The Weather Station sub-app

This sub-app functions as a real-time weather monitoring dashboard, displaying an array of climate-related parameters such as temperature, humidity, barometric pressure, UVI, dew point, and heat index. The Weather Station enables immediate visualization of current weather conditions, facilitating a deeper understanding of climatology whether you're in a classroom setting or exploring the outdoors.



The Weather Station is applicable with any of the 2<sup>nd</sup> generation and up of the **einstein™** data loggers.



## Virtual Science Lab Application

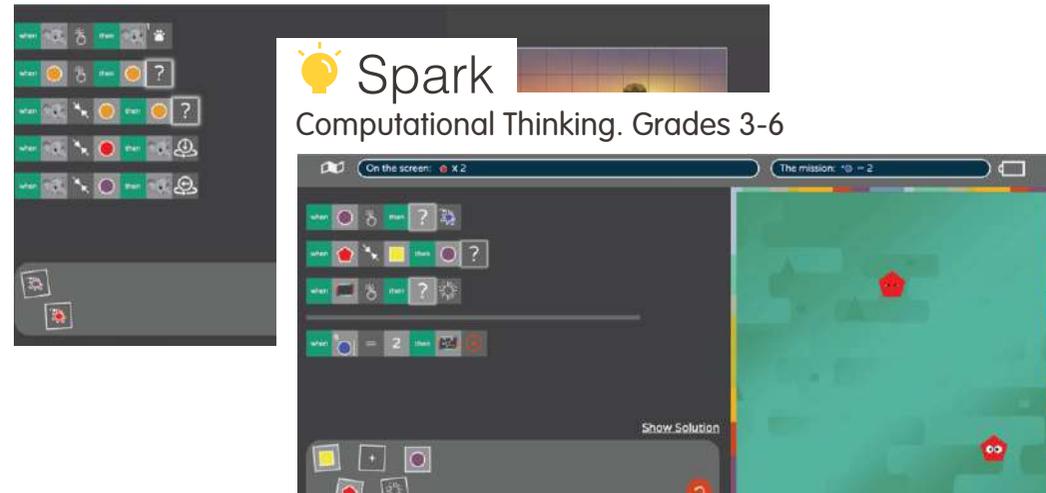


MYQ, a web based platform, empowers students to gain a profound understanding of scientific principles and core ideas, as well as foundational concepts in the realm of programming. It nurtures logical thinking skills and, more broadly, teaches students how to tackle challenges and solve problems with firm confidence across various aspects of life.

MYQ offers 4 different platforms

### + Pixel

Computational Thinking. Grades 1-3

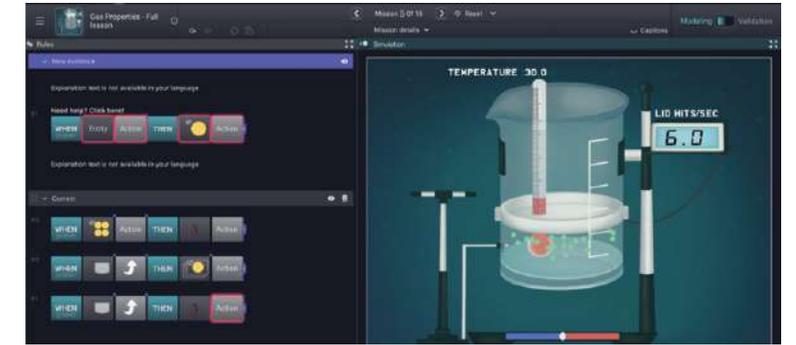


**Pixel** and **Spark** foster Computational Thinking in Grades 1-3 and 3-6, respectively. These applications introduce young minds to the realm of logical reasoning through immersive characters and enjoyable activities. They provide students with valuable insights into fundamental concepts like cause and effect, abstraction, conditional reasoning, and the ability to dissect complex problems into more manageable components.



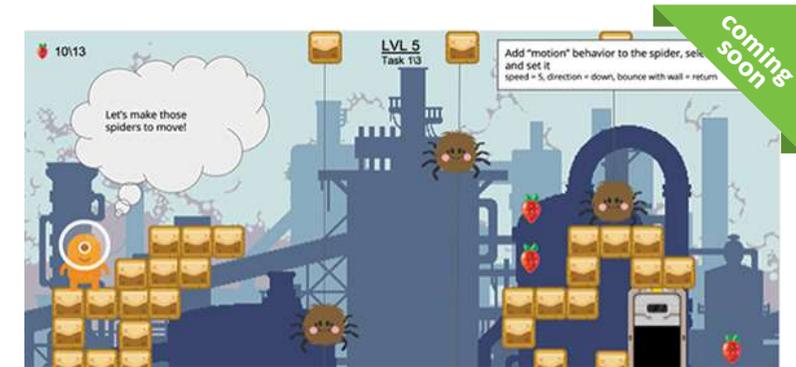
Science. Grades 7-9

**Cosmos** conveys scientific principles for Grades 7-9 by exploring real-life examples and facilitates a comprehensive understanding of physical, biological, and chemical phenomena. Cosmos teaches the skills of research, model-building, hypothesis testing, learning from mistakes, and internalizing the fundamental ideas that form the basis of science.



Game design and development. Grades 5-9

**Gamelab** is a platform that empowers students in Grades 5-9 to effortlessly design digital games, craft vibrant spaces with diverse graphics and engaging animations, set rules, and plan the plot as they desire. Gamelab allows children to imagine, create, play, and share their creations with friends.



For more info visit [www.myqedu.com](http://www.myqedu.com)



**"...The value of an education**  
is not the learning of many facts, but the training  
of the mind to think something that cannot be  
learned from textbooks"

Albert Einstein



## einstein™ Data Loggers

### einstein™ Tablet 3 Pro

Android all-in-one  
science tablet  
+14 (including camera)  
built-in sensors

OR

### einstein™ LabMate II

Transform any screen device  
into a science lab  
+8 built-in sensors

OR

### einstein™ LabMate II Lite W/O Sensors

No internal sensors included

## einstein™ Tablet3Pro

- Full Android 10.1" Tablet, with Android 14 OS
- 14 Built In Sensors (including Camera), commonly used in most science curricula.
- Connects up to additional 8 external sensors, from over 60 in the **einstein™** catalog
- Designed to align with NGSS and Common Core standards.



### Features

-  10.1" screen
-  Android™ 14 OS
-  Octa-Core(2 Core A73+6 Core A53)
-  MicroSD card slot
-  Camera x 2 (front & back)
-  External display - up to 4K
-  WIFI 5
-  Bluetooth5™
-  Battery 10000mAh
-  Fast Charging: USB-C PD and Micro USB
-  Update software Notifications

 The **einstein™** Tablet3Pro includes free license to use for the **MiLABEx** software with its 4 sub-apps:

The **Lab** for performing experiments, the **Weather Station** sub-app for monitoring and exploring climate metrics, the **Workbook** sub-app for building, downloading and sharing content from everywhere, and the **Research** sub-app for building a research investigation

Can be downloaded from the **einstein™** website's download center and App stores

Compatible with over **60** **einstein™** sensors

Collects data from up to **20** sensors simultaneously

- 14** Built-in sensors
- UVI
- Light
- Temperature
- Heart Rate
- Humidity
- Accelerometer
- GPS/Location
- Microphone
- Sound
- Barometric Pressure
- Heat Index
- Dew Point
- Par
- Video



## einstein™ LabMateII

The ideal solution for schools already equipped with tablets or computers

- Features 8 built-in sensors commonly used in most science curricula
- Connects to up to 8 external sensors simultaneously, from over 60 Sensors available in the **einstein™** catalog
- Pairs with any tablet, computer, or smart phone via BLE or micro-USB port
- Internal memory of up to 750k samples
- Keeps collecting and saving data even when it's disconnected from the screen device
- Easier and faster Bluetooth connection
- Conduct offline experiments from everywhere and export the data to any of your devices

Compatible with over

**60** einstein™ sensors

Collects data from up to

**16** sensors simultaneously



## einstein™ LabMateII

**8** Built-in sensors Features

- |             |   |
|-------------|---|
| Heart Rate  | High Sample rate                              |
| Temperature | Connect up to 8 additional (external) Sensors |
| Humidity    | Offline mode experiments                      |
| Barometer   | Indoor and outdoor experiments                |
| UVI         | Auto Sensors recognition                      |
| Light       | Internal memory up to 750K samples            |
| Heat Index  | Long lasting Battery                          |
| Dew Point   | USB Connection                                |
|             | Long wireless range Bluetooth (BLE)           |



The **einstein™** LabMateII and LabMateII Lite include free license to use for the **MiLABEx** software with its 4 sub-apps: The **Lab** for performing experiments, the **Weather Station** for monitoring and exploring climate metrics, and the **Workbook** for building, downloading and sharing content from everywhere

Can be downloaded from the **einstein™** website's download center and App stores

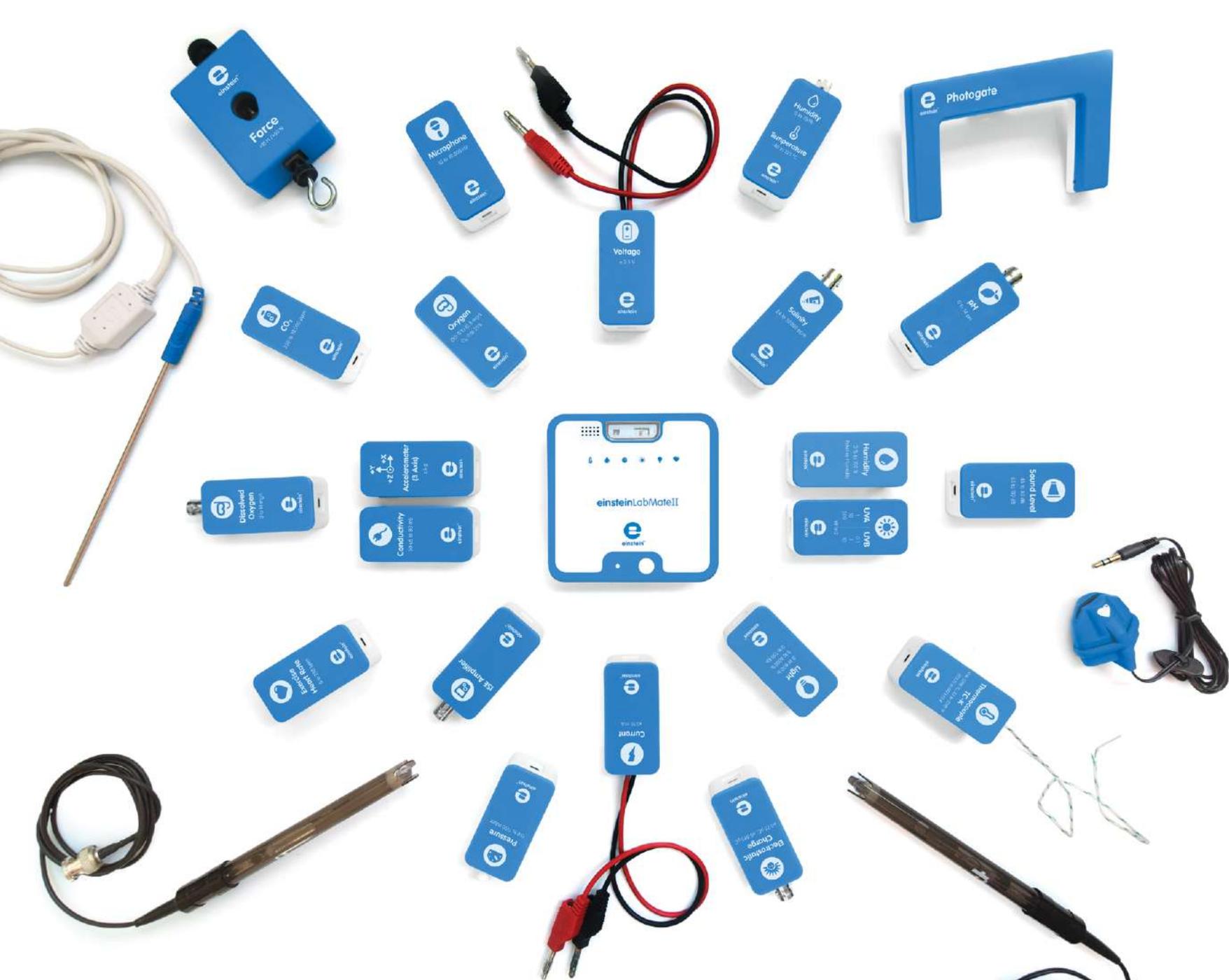
## einstein™ LabMateII Lite W/O Sensors



The LabMateII Lite offers an affordable and adaptable solution for educators & students, enabling logger customization by adding external sensors tailored to specific educational needs and budget.

Product Overview:

- Modular Design:** No pre-installed internal sensors, enabling tailored configurations.
- Connectivity:** via USB connection (optional- Bluetooth connection)
- Power Supply** via power cable, (optional- internal battery).
- Sensor Compatibility:** Connect up to 8 external sensors simultaneously from over 60 sensors available in the **einstein™** catalog that cover most curricula topics.



# einstein™ Sensors

over 60 sensors for accurate data-collection and inquiry-based experiments

# Fourier's Recommended **einstein™** Bundles per subject learned

- Primary School
- Middle School
- High School and University

Each bundle comes with **einstein™Tablet3Pro** or **einstein™LabMateII** at your choice, with all it's internal sensors, as well as with the **MiLABEx** software, with its free license to use, and 3 sub-apps - The Lab, WorkBooks and Weather Station



**einstein™Tablet3Pro**  
Includes **14 Built-in sensors** (See page 20)

OR



**einstein™LabMateII**  
Includes **8 Built-in sensors**  
(See page 22)

OR



**einstein™LabMateII Lite**  
**W/O Sensors**  
(See page 23)

Bundle	Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5	Sensor 6	Sensor 7	Sensor 8	Sensor 9	Sensor 10	Sensor 11	Sensor 12	Sensor 13	Sensor 14	Sensor 15		
<b>Biology Bundle</b>	Temperature Sensor (-40 to 140°C)	Humidity Sensor	Light Sensor	pH Sensor	Conductivity Sensor	CO2 Sensor	Colorimeter Sensor	Pressure Sensor (20-400 kPa)	Combined Oxygen Sensor	Ethanol Sensor	Turbidity Sensor	PAR Sensor					
<b>Physics Bundle</b>	Temperature Sensor (-40 to 140°C)	Current Sensor (250 mA)	Voltage Sensor (2.5V)	Light Sensor	Distance Sensor	Force Sensor	Pressure Sensor (20-400 kPa)	Sound Sensor	Acceleration Sensor	Electrostatic Charge Sensor	Magnetic (Triple Axis) Sensor	Photogate Sensor	Smart Pulley Sensor	Geiger Muller Sensor	PAR Sensor		
<b>Chemistry Bundle</b>	Temperature Sensor (-40 to 140°C)	Current Sensor (250 mA)	Voltage Sensor (2.5V)	Ammonium Sensor	Bromide Sensor	Calcium Sensor	Chloride Sensor	Fluoride Sensor	Lead Sensor	Nitrate Sensor	Potassium Sensor	Sodium Sensor	Conductivity Sensor	pH Sensor	Pressure Sensor	Drop Counter Sensor	Ethanol Sensor
<b>Environmental</b>	Temperature Sensor (-40 to 140°C)	Anemometer Sensor	Dissolved CO2 Sensor	Flow Rate Sensor	Light Sensor	Sound Sensor	Soil Moisture Sensor	Rain Collector	Dissolved Oxygen 0 to 12.5 mg/L	Combined Oxygen 0 to 14 mg/L	ISE Sensors	PM* Sensor					
<b>Human Physiology Bundle</b>	Surface Temperature Sensor	Humidity Sensor	Heart Rate Sensor	Heart Rate Exercise Sensor	Dissolved CO2 Sensor	Spirometer Sensor	Blood Pressure Sensor	CO2 Sensor	EKG								

\*The sensor is applicable with version 2 and up of the LabMate

## einstein™ Environmental & Renewable Energy Bundles

Dedicated bundles for students that enable focusing on world **enviromental and climate challenges**. Promote curiosity, enable creative thinking, boost wonder and questioning, and take action in collaboration and communication.



einstein™ Tablet 3 Pro  
Includes 14 Built-in sensors

OR



einstein™ LabMate II  
Includes 8 Built-in sensors



einstein™ LabMate II Lite  
W/O Sensors

Climate Monitoring	Temperature Sensor	Humidity Sensor	Light Sensor	UVI Sensor	Barometric Pressure	Dew Point	Heat Index	Anemometer Sensor	Rain Collector				
Water Quality	pH Sensor	Conductivity/salinity Sensor	Temperature Sensor	Dissolved Oxygen Sensor	Turbidity Sensor	Dissolved CO <sub>2</sub> sensor							
Soil quality	Soil Moisture Sensor	Turbidity Sensor	Temperature Sensor	pH Sensor	Ammonium Sensor	Bromide Sensor	Calcium Sensor	Chloride Sensor	Fluoride Sensor	Lead Sensor	Nitrate Sensor	Potassium Sensor	Sodium Sensor
Air Quality	CO <sub>2</sub> Sensor	Dissolved Oxygen Sensor	*PM Sensor	Temperature Sensor	Humidity Sensor								
Solar Power	Voltage Sensor	Current Sensor	Temperature Sensor	UVI Sensor	Terra Nova Solar Panel		Solar cell	component holder					

\*The sensor is applicable with version 2 and up of the LabMate

# einstein™ Sensors

Explore over 60 external sensors that cover most curricula topics:

<b>Biology</b>		Photogate Sensor	40	Current Sensor ( $\pm 2.5$ A)	35	Turbidity Sensor	43	Temperature (Internal) Sensor	43	Flow Rate Sensor	36	Temperature (Internal) Sensor	43	Voltage $\pm 30$ TRMS	44
Anemometer	32	Pressure Sensor	41	Current Sensor ( $\pm 250$ mA)		UVA/ UVB Sensor	44	Temperature Sensor		Fluoride Sensor	36	Temperature Sensor		Voltage Sensor ( $\pm 2.5$ V)	
Blood Pressure Sensor	33	Pressure (Barometric)		Drop Counter	35	Voltage Sensor (Triple range)	44	Surface Temperature Sensor		Geiger Muller Counter	36	Surface Temperature Sensor		Voltage Sensor ( $\pm 25$ V)	
CO2 Sensor	34	Salinity Sensor	41	Ethanol Sensor	36			Temperature PT-100 Sensor		GPS/ Location	37	Thermocouple		Voltage Sensor (Triple range)	
CO2 Sensor (100K)		Soil Moisture	42	Fluoride Sensor	36	<b>Physics</b>		Thermocouple		Heat Index	38	Turbidity Sensor	43	Magnetic Field Sensor (Triple Axis)	39
Colorimeter	34	Temperature (Internal) Sensor	43	Geiger Muller Counter	36	Accelerometer	32	UVA/ UVB Sensor	44	Humidity + Temperature Sensor	38	UV Index (Internal)	44	<b>Water Quality</b>	
Conductivity Sensor	34	Temperature Sensor		Humidity Sensor	38	Accelerometer (3 axis)		Voltage $\pm 30$ TRMS	44	Humidity Sensor	38	UVA/ UVB Sensor		Conductivity Sensor	34
Dew Point	35	Surface Temperature Sensor		Lead Sensor	38	Colorimeter	34	Voltage Sensor ( $\pm 2.5$ V)		Lead Sensor	38			Oxygen (Dissolved) Sensor	39
Drop Counter	35	Temperature PT-100 Sensor		Light Sensor (Triple range)	38	Current Sensor ( $\pm 2.5$ A)	35	Voltage Sensor ( $\pm 25$ V)		Light Sensor (Triple range)	38	<b>Human Physiology</b>		pH Sensor	40
EKG Sensor	35	Thermocouple		Nitrate Sensor	39	Current Sensor ( $\pm 250$ mA)				Nitrate Sensor	39	Blood Pressure Sensor	33	pH Sensor	40
Ethanol Sensor	36	Turbidity Sensor	43	Oxygen (Dissolved) Sensor	39	Distance Sensor	35	Ammonium Sensor	32	Oxygen (Dissolved) Sensor	39	CO2 Sensor (100K)	34	Salinity Sensor	41
Flow Rate Sensor	36	UV Index (Internal)	44	Oxygen Sensor (combined)		Electrostatic Charge Sensor	36	Anemometer	32	Oxygen Sensor (combined)		EKG Sensor	35	Temperature Sensor	43
GPS/ Location	37	UVA/ UVB Sensor		pH Sensor	40	Force Sensor	36	Barometric Pressure	41	pH Sensor	40	Heart Rate (Exercise)	37	Turbidity Sensor	43
Heart Rate (Exercise)	37			Potassium Sensor	40	GPS/ Location	37	Bromide Sensor	33	PM Sensor	40	Heart Rate (Pulse)		<b>Accessories</b>	
Heart Rate (Pulse)		<b>Chemistry</b>		Pressure Sensor	41	Light Sensor (Triple range)	38	Calcium Sensor	33	Potassium Sensor	40	Oxygen (Dissolved) Sensor	39	Calorimeter	
Humidity + Temperature Sensor	38	Ammonium Sensor	32	Pressure (Barometric)		Magnetic Field Sensor (Triple Axis)	39	Chloride Sensor	33	Pressure Sensor	41	CO2 Sensor (100K)	34	Dynamic System	
Humidity Sensor	38	Barometric Pressure	41	Salinity Sensor	41	Microphone	39	CO2 Sensor	34	Pressure (Barometric)		EKG Sensor	35	Picket Fence	
Light Sensor (Triple range)	38	Calcium Sensor	33	Sodium Sensor	42	PAR Sensor	40	CO2 Sensor (100K)		Rain Collector	41	Heart Rate (Pulse)		Pressure Kit	
Oxygen (Dissolved) Sensor	39	Chloride Sensor	33	Temperature (Internal) Sensor	43	Photogate Sensor	40			Salinity Sensor	41	Oxygen (Dissolved) Sensor	39	Terra Nova Solar Kit	
Oxygen Sensor (combined)		CO2 Sensor	34	Temperature Sensor		Rotary Motion Sensor	42	Colorimeter	34	Soil Moisture	42	Spirometer	42	Waterproof Sleeve for CO <sub>2</sub> Sensor	
PAR Sensor	40	CO2 Sensor (100K)		Surface Temperature Sensor		Smart Pulley	42	Conductivity Sensor	34					Pendulum	
pH Sensor	40	Colorimeter	34	Temperature PT-100 Sensor		Sound Sensor	42	Dew Point	35	Sound Sensor	42	<b>Electricity &amp; Magnetic field</b>			
		Conductivity Sensor	34	Thermocouple								Current Sensor ( $\pm 2.5$ A)	35		
												Current Sensor ( $\pm 250$ mA)			
												Electrostatic Charge Sensor	36		

# einstein™ Sensors

Explore the full range of sensor data and technical specifications through Ask Alstein inside MiLABEx.

Ask Alstein
Ask Alstein

Hi Ask Alstein, I want to measure wind speed and direction for my environmental study. Which sensor should I use?

Great question! To measure both wind speed and direction, use the Anemometer Sensor. It records how fast the wind blows and the direction it comes from, giving you two types of data in one experiment.

Can I use it outdoors with my LabMate?

Yes, absolutely. The Anemometer Sensor connects directly to your einstein™ LabMate or Tablet, and it's perfect for outdoor measurements. Just make sure the sensor's arrow faces into the wind and is positioned away from obstacles.

What should I measure over time?

You can record changes in wind speed and direction at different times of day or under different weather conditions. Try combining it with the Temperature and Humidity sensors to study how weather parameters interact.



## Accelerometer

An einstein™ Tablet3Pro built-in sensor



Range: ±2g

In the lab, use these sensors to measure the acceleration of a moving cart, pendulum, or falling body or go outdoors to study acceleration of vehicles, amusement park rides, bungee jumpers, and other moving objects.



## Accelerometer



Range: ±6g (±49 m/s<sup>2</sup>) along 3 axes

ENACL138



## Ammonium Sensor with Electrode \*



Concentration Range:  
5 μM to 1M or 0.1 ppm to 14,000 ppm

Easily measure the ammonium ion (NH<sub>4</sub><sup>+</sup>) level of a solution. Use it to study water quality, determine the ammonium level in foodstuffs and more.

\*Electrode also sold separately

ENAMN020A



## Anemometer



Wind Speed Range:  
4 km/h to 280 km/h; 2.5 mph to 174 mph

Wind Direction Range:  
0° to 360°

This 2-in-1 sensor measures wind speed and direction at different daily intervals or over a longer period.

ENANM012A



## Blood Pressure Sensor



Range: 0 to 375 mmHg

Measure blood pressure before and after exercise; investigate how blood pressure changes during the day or after physical activity.

ENBLD098



## Calcium Sensor with Electrode \*



Concentration Range:  
0.5 μM to 1M or 0.02 ppm to 40,000 ppm

Measure the level of calcium in any solution in activities such as determining the hardness of water.

\* Electrode also sold separately

ENCAL-A019A



## Bromide Sensor with Electrode \*



Concentration Range:  
0.5 μM to 1 M or 0.4 to 79,900 ppm

Easily measures the amount of bromide in a solution. Use it to study bromide levels in soil and water.

\* Electrode also sold separately

ENBRO048



## Chloride Sensor with Electrode \*



Concentration Range:  
5 μM to 1M or 1.8 ppm to 35,500 ppm

Study levels of chloride in fertilizers or conduct water quality studies with this sensor.

\* Electrode also sold separately

ENCHL-A018A





### CO<sub>2</sub> Sensor



Range: 350 to 10,000 ppm

This sensor can be used to measure a wide variety of CO<sub>2</sub> concentrations during photosynthesis and chemical reactions in biology and chemistry labs.

**ENCO2B040A**



### CO<sub>2</sub> Sensor



Range: 350 to 10,000 ppm

This sensor can be used to measure a wide variety of CO<sub>2</sub> concentrations during photosynthesis and chemical reactions in biology and chemistry labs.

**ENCO2B040A**



### Current Sensor



Range: ±2.5 A

These broad differential sensors are capable of measuring both direct and alternating current.

**ENCRN006**



### Current Sensor



Range: ±250 mA

**ENCRN005**



### Dew Point

An **einstein™** Tablet3Pro built-in sensor



Range: °C or °F

The temperature at which a vapor (such as water) begins to condensate. Since water vapor is also affected by the humidity of the air, the temperature and humidity sensors are used to measure dew point.



### Colorimeter\*



Wavelength:  
Blue (480 nm) | Green (500 nm) | Red (650 nm)

Designed to determine the concentration of a solution by measuring its color intensity, students can use this sensor to study the effect of light on chlorophyll levels in plants, the Beer-Lambert Law and more.

\* Sensor design may change

**ENCOL-A185**



### Conductivity + Temperature with Electrode \*



Conductivity range: 0.05 - 80 mS

Temperature range: 0-80°C

Use this sensor to monitor changes in conductivity when dissolving salts in water, monitoring bodies of water for pollution or water salinity testing.

\* Electrode also sold separately

**ENCNT435A**



### Distance Sensor



Range: 0.2 to 10 m

Measure the distance of static and moving objects both near and far. Students can use this versatile sensor to investigate dynamic cart motion on a track, measure free fall acceleration and more.

**ENDST020**



### Drop Counter Sensor



Range: 0 to infinity drops

Accurately record the volume of titrant added with this optical sensor.

\* Sensor design may change

**ENDRP-AD100**



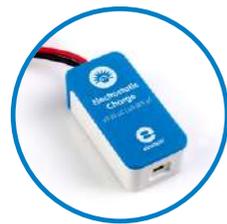
### EKG Sensor



Range: 0 to 3 V

An electrocardiogram – abbreviated as EKG or ECG – is a test that measures the electrical activity of the heartbeat. With each beat, an electrical impulse (or wave) travels through the heart. This wave causes the muscle to squeeze and pump blood through the body.

**ENEKG189**



**Electrostatic Charge Sensor**

Range:  $\pm 0.25 \mu\text{C}$  |  $\pm 0.025 \mu\text{C}$

This dual range, sensor can be used in activities like measuring the charge produced by friction, measuring charge by induction, investigating conductive and insulating materials and exploring the relationship between the charge and the voltage drop across a parallel plate capacitor.

ENCRG261



**Fluoride Sensor with Electrode \***

Concentration Range:  $1 \mu\text{M}$  to saturation or 0.02 ppm to saturation

Easily measures the amount of fluoride in a solution. Use it in agriculture studies and chemistry experiments

\* Electrode also sold separately

ENFLU049



**Ethanol Sensor**

Range: 0-4%

Easily measures the amount of ethanol in a solution. Use it to study ethanol as a renewable source of energy and the process of fermentation.

ENETH105



**Force Sensor**

Range:  $\pm 10 \text{ N}$  |  $\pm 50 \text{ N}$

Study friction, simple harmonic motion, impact in collisions or centripetal force with this sensor.

ENFRC272



**Flow Rate Sensor**

Range: 0 to 4.0 m/s

Measure the velocity of water flowing in a river, stream or canal.

ENFLO-A254A



**Geiger Muller Sensor**

Range: CPM

This radiation sensor is used in experiments such as demonstrating the random nature of radioactivity, measuring activity vs. Distance of a radioactive source and investigating the effect of different absorbers on radiation.

\* Sensor design may change

ENGEN116



**GPS**  
einstein™ Tablet3Pro built-in sensor

A standard Global Positioning System, helps students add the parameter of location to a variety of experiments.



**Exercise Heart Rate Sensor**

Range: 0 to 250 bpm

Use this sensor to compare or monitor heart rates before, during and after brief vigorous activity and monitor the time it takes the heart rate to return to normal.

ENEXRT298



**Heart Rate**  
A built-in sensor on all einstein™ data loggers



**Heart Rate Sensor**

Range : 0 to 250 bpm | 40-240 bmp (Tablet3Pro)

Use these high accuracy sensors to measure an individual's fitness, and how factors such as level of activity, gender and size impact heart rate. In the new einstein™ Tablet3Pro the Haert rate is using the back camera.

ENHRT-A155



**Heat Index**  
An einstein™ Tablet3Pro built-in sensor

Range: °C or °F

Also known as the apparent temperature is what the temperature feels like to the human body when relative humidity is combined with the air temperature





**Humidity**  
A built-in sensor on all **einstein™** data loggers



Range: 0 % to 100 % Relative Humidity

Learn about body respiration properties, biotic conditions and research the meteorological connections between humidity and temperature.

\* Sensor design may change

**ENHMD014**



**Humidity Sensor**



**Humidity + Temperature**



Range: 0%-100% Relative Humidity | -40 to 125 °C

This highly accurate combined sensor simplifies experiments involving temperature and humidity. New-when connected, it enables dew point and heat index measurement.

**ENHMT041**



**Magnetic (Triple Axis) Sensor**



Range: ±20 mT | ± 0.4 mT

Measuring magnetic field strength along three axes, this highly accurate sensor can be used to investigate the effects of the earth's magnetic field, a solenoid's magnetic field and the magnetic field of Helmholtz coils.

**ENMGN**



**Microphone**  
**einstein™Tablet3Pro** built-in sensor



Range: 35 to 10,000 Hz

These sensors are designed to study the properties of sound waves such as the speed of sound through air and other materials, sound beats or harmonic properties of sound.

**ENMCR008**



**Microphone Sensor**



**Lead Sensor with Electrode \***



Concentration Range:  
1 μM to 0.1 M or 0.2 to saturation

Easily measures the amount of lead in a solution and in soil.

\* Electrode also sold separately

**ENLEA050**



**Light**  
A built-in sensor on all **einstein™** data loggers



Range: 0-600 lux | 0-6000 lux | 1-128,000 lux (Tablet3Pro)

These Light sensors contain a high precision photoelectric cell that measures light intensity in activities such as solar radiation and photosynthesis.

**ENLGT009-4**



**Light Sensor**



**Nitrate Sensor with Electrode \***



Concentration Range:  
7 μM to 1 M or 0.1 ppm to 14,000 ppm

Conduct water quality studies and easily and accurately measure nitrate ions in aqueous solutions.

\* Electrode also sold separately

**ENNTR-A017A**



**Dissolved Oxygen Sensor with Electrode\***



Range: 0 to 14 mg/L

Measure oxygen concentration in solutions and fluids. Conduct investigations into oxygen consumption in aquariums and other bodies of water. Built-in temperature compensation makes this sensor highly accurate and easy to use.

\* Electrode also sold separately

**ENOX422A**



**Combined Oxygen Sensor with Electrode\***



Range: 0 to 12.5 mg/L DO | 0 to 25% O<sub>2</sub>

The oxygen sensor is used to perform experiments in both liquid and gaseous environments, such as measuring oxygen in an aquarium or understanding photosynthesis.

**ENOXY-A222**



**PAR Sensor**  
A built-in Barometer on all **einstein™** data loggers



**PAR Sensor**



Range: Ask your representative

The sensor measures the Photosynthetic Photon Flux Density (PPFD), which corresponds to micromoles of photons per meter squared per second. Ideal for experiments investigating photosynthesis and primary productivity and can be used in science education.



**Photogate Sensor**



This general-purpose sensor is commonly used for a wide variety of experiments such as studying the swinging of a pendulum, measuring the speed of a rolling object or measuring the speed of colliding objects.

**ENFTG137**



**Pressure (Barometric) Sensor**  
A built-in Barometer on all **einstein™** data loggers



**Pressure (Barometric) Sensor**



Range: 15 to 115 kPa or 0.148 to 1.134 atm or 150 to 1150 mbar  
**einstein™Tablet3Pro** range: 26 to 260 kPa or 0.26 to 1.24 atm or 260 to 1260 mbar

This sensor can be used as an altimeter and as a barometer for various meteorological measurements. Investigating transpiration, measuring the respiration rate of germinating seeds and examining the Ideal Gas Law.

**ENPRS015**



**Pressure Sensor**



Range: 400 Kpa  
With their broad range, these Pressure Sensors can be used to monitor a variety of pressure changes. Use them in class to demonstrate phenomena such as Boyle's Law or Gay-Lussac's Law.

**ENPRS015-4**



**pH Sensor**  
with Electrode \*



**PM Sensor**



Range: 0 to 14 pH

Measure pH changes during chemical reactions, follow an acid-base titration or examine bodies of water over long periods of time.

\* Electrode also sold separately. Also available with a flat electrode

**ENPH-A016 and ENPHF052 (for flat)**

Ranges: 1µM, 2.5 µM and 10 µM

The PM sensor measures floating particulate matter in the air in three

\* The sensor is compatible with the **einstein™Tablet3Pro**, **LabMateII** and newer versions



**Potassium Sensor**  
with Electrode \*



Concentration Range:  
7 x 10<sup>-6</sup> M to 1M or 0.04 ppm to 39,000 ppm

The Potassium sensor can be used to measure pollution, agricultural fertilizers or the effects of processing food.

\* Electrode also sold separately

**ENPOT-A008**



**Rain Collector**



Range: 0 to 819 mm

This sensor measures rainfall and is used in a variety of experiments in Climatology and Environmental Studies.

**ENRNCOL**



**Rotary Motion Sensor**



Range: ±360°

Examine how objects move, accelerate and swing. This sensor and pendulum accessory help students explore topics such as the effects of gravity on objects in motion.

\* Sensor design may change

**ENROT-A148**



**Salinity + Temperature**  
with Electrode \*



Salinity range: 24 to 52000 ppm

Temperature range: 0-80°C

This easy to use sensor measures the salt content of a solution and is ideal for testing water quality.

**ENSLT**



### Smart Pulley Sensor



Range: 0 to 99 m/s

Measure the velocity and acceleration of moving objects. Learn Newton's laws of motion including Newton's second law with this smart pulley.

**ENSMP-A122**



### Sodium Sensor with Electrode \*



Concentration Range:  
4 μM to 1 M or 0.1 to 23,000 ppm

Easily measures the amount of sodium in a solution. Use it for agriculture studies, experiments on food and chemistry studies.

\* Electrode also sold separately

**ENSOD051**



### Soil Moisture Sensor



Range: 0 to 200 cbar

Measure the soil's moisture electric resistance and convert data into calibrated readings of soil moisture.

**ENSOI-A171**



### Ambient Temperature

A built-in sensor on all einstein™ data loggers



Range: -30°C to 50°C | -15 to 50°C (Tablet3Pro)

This internal sensor is useful for measuring ambient temperature and conducting experiments in micro climates.



### Temperature Sensor



Range: - 40°C to 140°C or - 40°F to 284°F

This all-purpose temperature sensor is particularly well suited for conducting water and solution temperature measurements.

**ENTMP029**



### Surface Temperature Sensor



Range: -40°C to 140°C or 40°F to 284°F

This high accuracy surface temperature Sensor enables exploration of topics such as skin temperature measurements and the effects of wearing light or dark-colored clothing.

**ENTMP060**



### Sound Level Sensor



Range: 45 to 80 dB | 65 to 110 dB

Investigate environmental noises, room acoustics, sound level or sound isolation.

**ENSND320**



### Spirometer



Range: ±315 L/min, ±5.25 L/sec Volume: 0-6 L

The Spirometer is a breathing sensor designed to conduct physiology experiments. Based on air speed, the Spirometer calculates the airflow rate and lung capacity of a subject who is breathing into the sensor. By default, the results are shown in liters per second.

**ENSPR016**



### Temperature PT-100 Sensor



Range: -200°C to 400°C or -328 to 752 F

This Platinum Resistance Thermometer (PRT) is ideal for use in the research of extremely low temperatures and is also a very powerful sensor for monitoring liquids, gases and other materials.

\*Sensor design may change

**ENTMP027**



### Thermocouple TC-K Sensor



Range:  
0°C to 1200°C | 32°F to 2192°F | 273.15 K to 1473.15 K

The Temperature TC-K sensor can be used in high temperature experiments such as monitoring chemical processes that occur at high temperatures, measuring the different temperature zones of a flame or simply monitoring ovens.

**ENTMP025**



### Turbidity Sensor



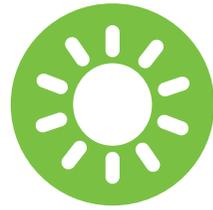
Range: 0 to 200 NTU

This sensor measures the cloudiness of water due to industrial processes or environmental pollution. each sensor comes with 5 cuvettes

\* Sensor design may change

**ENTRB-A095**





### UV Index

A built-in sensor on all **einstein™** data loggers



Range : UV Index (Tablet3Pro) 1-11  
Wave length: 290-390nm

This sensor can be used mainly to measure UVA radiation. In the New **einstein™**Tablet3Pro, the internal UV sensor is presenting the data as UV index (UVI)



### UVA / UVB Sensor



Range UVA:  
320nm - 400 nm | 1 W/m<sup>2</sup> | 10 W/m<sup>2</sup> | 200 W/m<sup>2</sup>

Range UVB:  
280nm - 320 nm | 100 mW/m<sup>2</sup> | 1 W/m<sup>2</sup> | 10 W/m<sup>2</sup>

Study the UV variations along a fluorescent tube, the invisible light from different sources or fluorescent rocks and dyes.

**ENUVAB063**



### Voltage Sensor



Range: ± 2.5 V

These low and medium range sensors can measure both AC and DC voltage and are used in experiments involving EMF and internal resistance, a light bulb and a diode, I-V characteristics of a diode, electric circuits, resistance of a wire or Ohm's Law.

**ENVLT003**



### Voltage Sensor



Range: ± 25 V

These low and medium range sensors can measure both AC and DC voltage and are used in experiments involving EMF and internal resistance, a light bulb and a diode, I-V characteristics of a diode, electric circuits, resistance of a wire or Ohm's Law.

**ENVLT001**



### Voltage Sensor



Range: ±30 V  
TRMS Range: 0 to 21 V

This sensor not only has a broad range but can also conduct extremely accurate TRMS readings. Measures both AC and DC voltages and can be used in experiments involving EMF and internal resistance, alternative energy, electric circuits, resistance of a wire or Ohm's Law.

**ENVLT102**



### Voltage Sensor



Triple range: ±1 V | ±10 V | ±25 V

This broad range sensor can measure both AC and DC voltage and is used in experiments involving EMF and internal resistance, a light bulb and a diode, I-V characteristics of a diode, electric circuits, resistance of a wire or Ohm's Law.

**ENVLT019**

## Accessories and Kits



### einstein™ splitter

A splitter allows to connect 2 external sensors into one sensor port.

**ENSPL011**



### Pressure Kit

A pressure kit enables the user to expand the use of the pressure sensor so that any of the kit components can be to connect to any other devices

**13877**



### Picket Fence

Drop the picket fence through a photogate to obtain records of position, velocity, and acceleration vs time or to measure gravity

**DT260**



### Pendulum

Explore the fascinating principles of motion, gravity, and harmonic oscillation with the pendulum experiment.

**AC015**



### Waterproof sleeve for CO<sub>2</sub> sensor

A waterproof sleeve for the CO<sub>2</sub> sensor for measuring the CO<sub>2</sub> concentrations in a solution.

**CSWCO2**



### Calorimeter

The Calorimeter contains a heat source that can deliver a heat flux, at a distinct temperature, into a sample and a temperature-measuring device that can read the resultant temperature change.

**ENCALMT**



### Terra Nova Solar Panel

A kit for solar renewable energy experiments that can be connected to all types of **einstein™** data loggers using the voltage & current sensors.

**TN001**



### Dynamics System

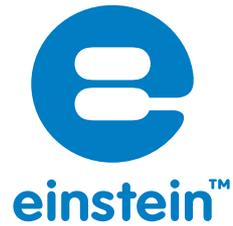
Dynamics System is an ideal accessory for the high school physics laboratory that lets students perform hands-on activities in the field of mechanics, and is also well suited for teaching motion to middle school students.

**DT072A**

# Fourier Footprint

Fourier all over the world





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