



einstein™ Catalog 2025



Future-Ready Skill Sets:

Empowering Curiosity, Exploration, Innovation, and Impact

Our Vision

Imagine a classroom where every student becomes a scientist, exploring the world with curiosity and confidence. The power of hands-on learning is well known for bringing science to life, fostering both independent exploration and collaborative discovery.

We continuously promote science education with advanced data loggers and software (MiLABEx) and over 60 sensors, enabling real-time data collection for hands-on learning. Our library of over 300 WorkBooks provides ready-to-use experiments that simplify concepts and inspire exploration.

Our 2025 vision embraces innovation, using AI-driven insights to foster collaboration, critical thinking, and skills that reach far beyond the classroom—preparing students to explore, create, and thrive in an ever-changing world.

Teach Science!





MiLABEx

The **MiLABEx** contains 3 sub-apps:

- Lab** - Start an experiment
- Workbook** - Create and share experiments
- Weather Station** - Monitoring climate parameters

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 2025



More info on page 20

New Tablet3Pro!

The new Tablet3Pro comes with enhanced features, including:

- 10.1" Android tablet with OS 14 for advanced performance
- 14 internal sensors, including a built-in camera
- Stronger battery for extended use

...and more advanced tools to power STEM teaching & learning experience.



More info on page 23

New LabMateII Lite W/O Sensors

- Affordable data logger for school that already have a screen device
- Fully compatible with the MiLABEx software.



New Sensors!



New PAR Sensor

Ideal for indoor and outdoor photosynthesis measurements



New Spirometer Sensor

Improved lung capacity measurements



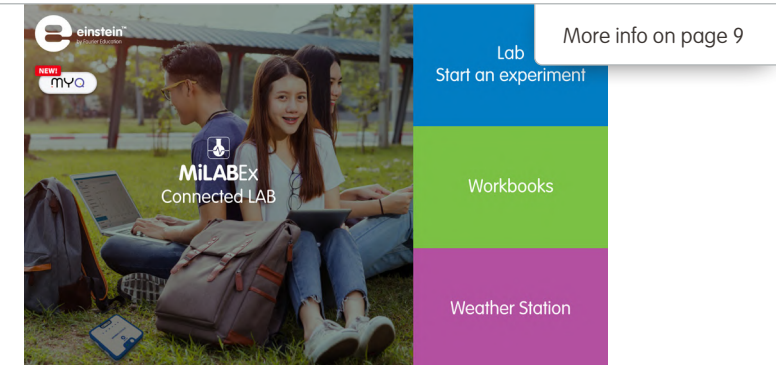
New PM Sensor

Measures floating particulate matter in the air



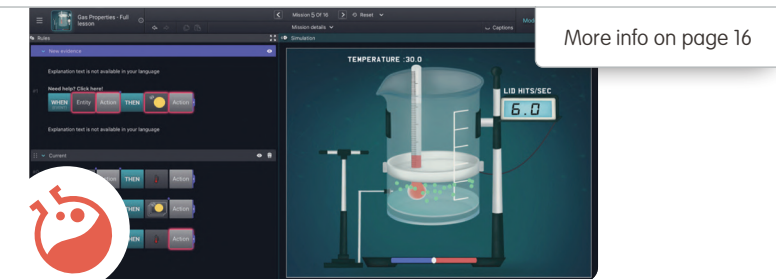
New Calorimeter

With precise energy readings



Enhanced Functionality for MiLABEx

- **Lab** - New features and formulas
- **Workbooks** - Over 300 free license and ready to use STEM activities with supportive Ai translation tools
- **Weather Station** - Upgraded user experience.
- Direct Link to **MYQ's** Web Application



MYQ's Cosmos Virtual Lab Application

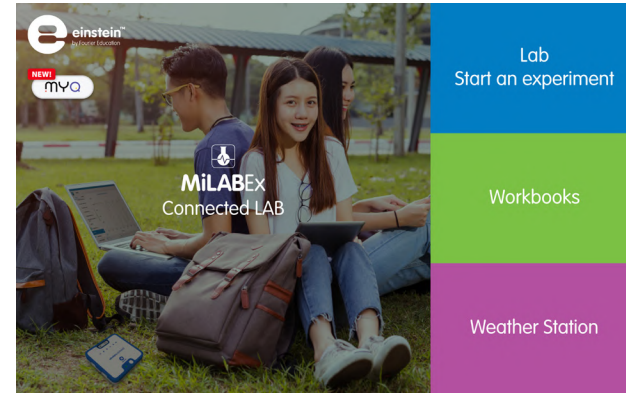
- Computational Thinking Science application for grades 7-9
- Builds skills in research, modeling, and hypothesis testing

"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



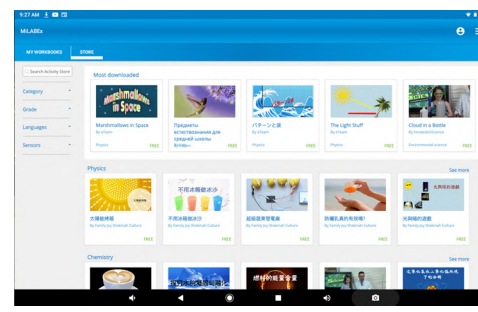
MiLABEx



The **MiLABEx** contains 3 sub-apps:



Lab - Start an experiment
Conducting science activities



Workbooks
Create and share experiments



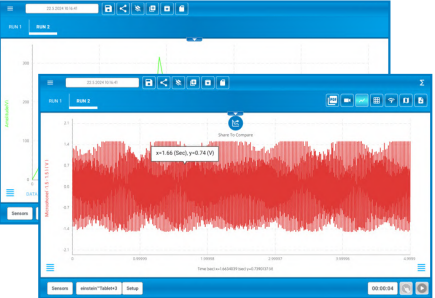
Weather Station
Monitoring climate parameters

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 new Lab's features



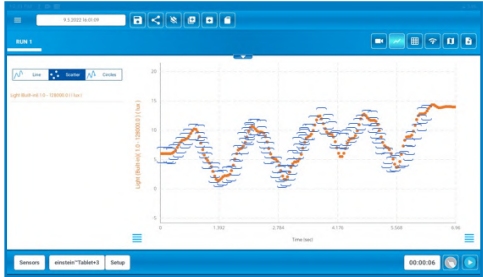
FFT (Fast Fourier Transform) - Calculate the Discrete Fourier Transform (DFT) efficiently and quickly and enables breaking down signals into their frequency.



PAR measurement - Conduct precise indoor and outdoor photosynthesis measurements.



The Curve Fit - Apply mathematical models to their data, making it easier to identify trends, analyze patterns, and draw accurate conclusions from experimental results.



The Error Bars - Visualize data reproducibility, providing a clear view of measurement uncertainty and helping to interpret the reliability of experimental results.



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

Future-Ready Skill Sets

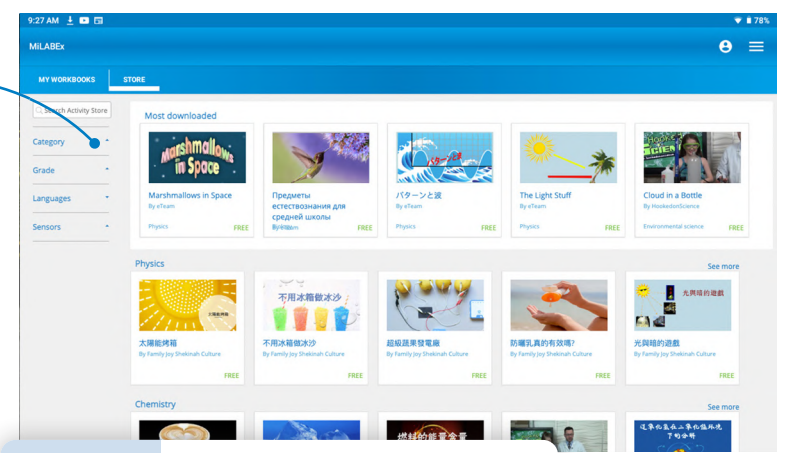
- Curiosity and Investigation
- Innovative Thinking
- Independent inquiry
- Critical Thinking
- Self-Motivation
- Collaboration
- Adaptability
- Problem Solving
- computational thinking




The **Workbooks** sub-app

Download & Run experiments directly from the Workbook sub-app

Without the need for login or sign-up, users can download over 300 activities, free of charge, divided by curriculum topics and languages powered with AI-based capabilities. Each workbook comes with a PDF/video detailing the experiment setup and explanation, as well as a predefined experiment setup.



 Translation to 8 languages empowered by AI

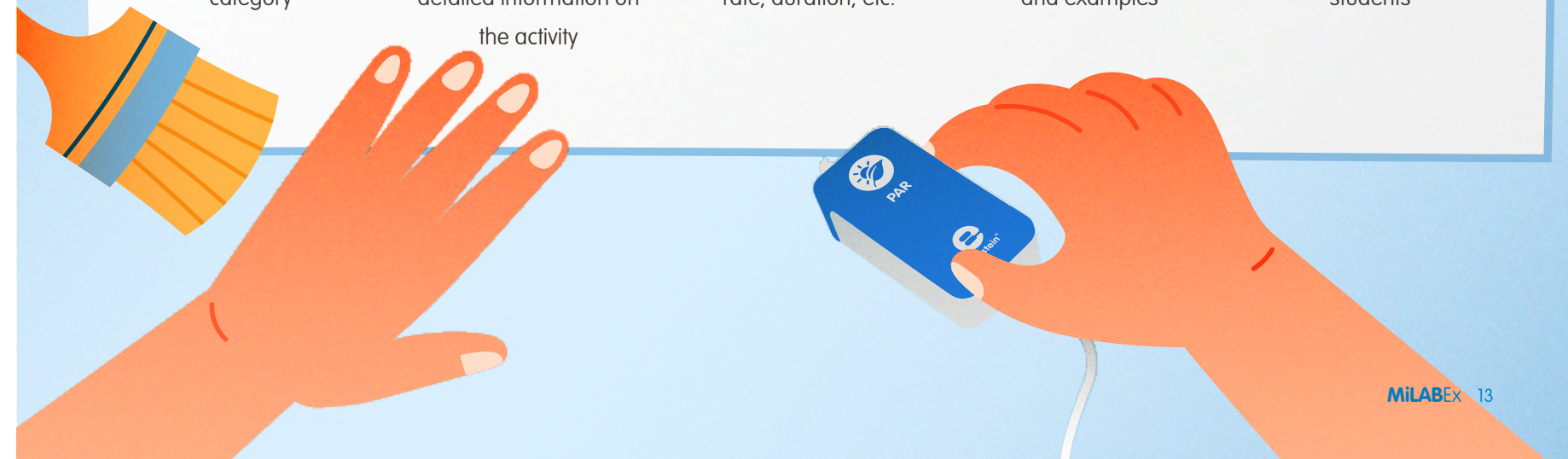


Design your own experiment

Build and share your content and predefined experiment setup

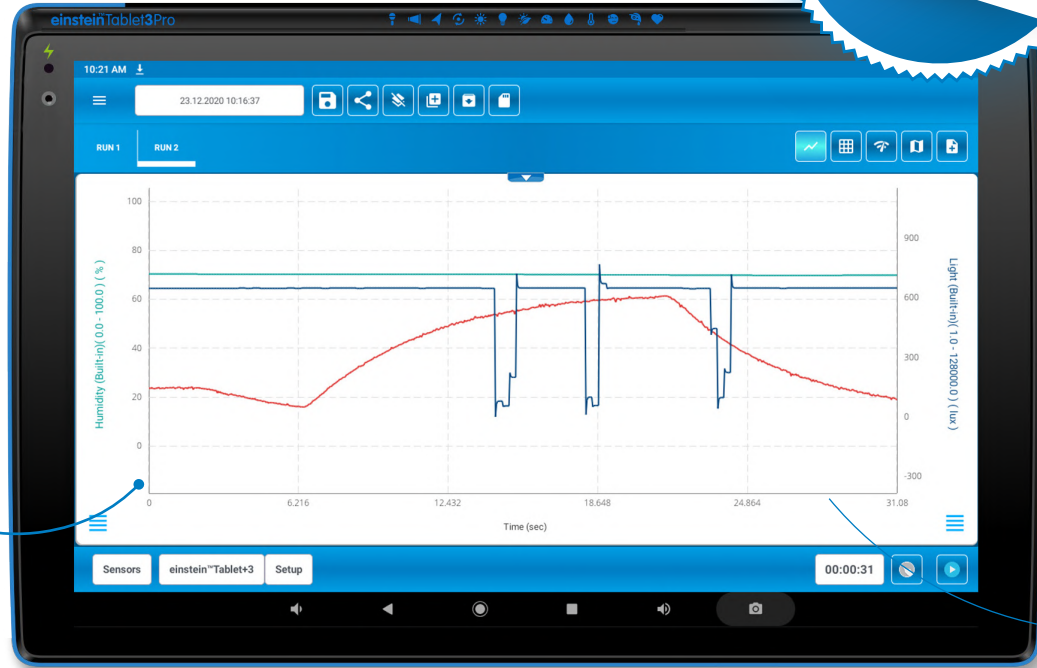


- 1 Create and name the activity, description and category
- 2 Upload content- experiment PDF with detailed information on the activity
- 3 Define experiment setup- relevant sensors, sample rate, duration, etc.
- 4 Optional- upload video for more explanations and examples
- 5 View, save and share with 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 2nd generation and up of the **einstein™** data loggers, including the new LabMate W/O Sensors



Virtual Science Lab Application

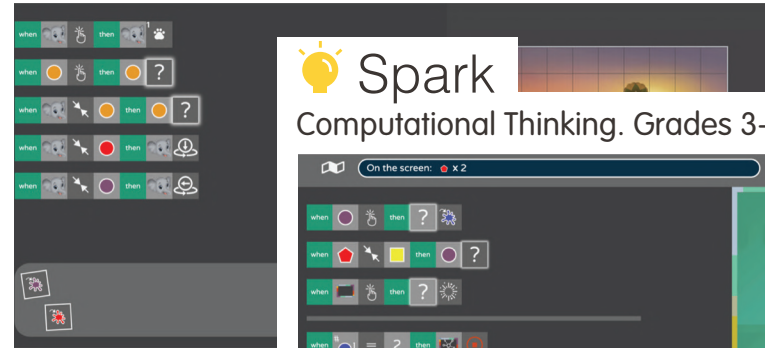


MYQ, a web based platform, empowers students to gain a profound understanding of scientific principles and core ideas, as well as foundational concepts in the realm of programming. It nurtures logical thinking skills and, more broadly, teaches students how to tackle challenges and solve problems with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

MYQ offers 4 different platforms

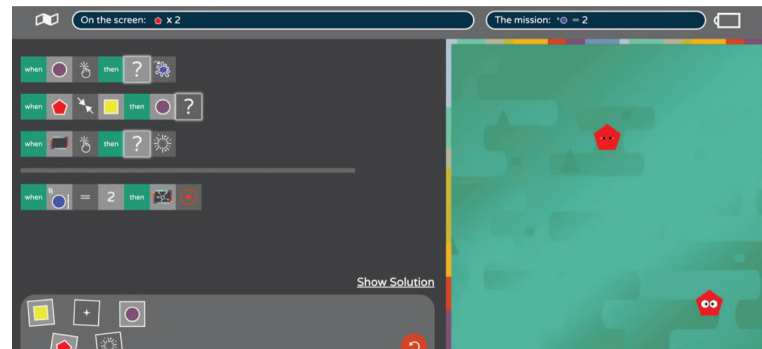
+ Pixel

Computational Thinking. Grades 1-3



Spark

Computational Thinking. Grades 3-6

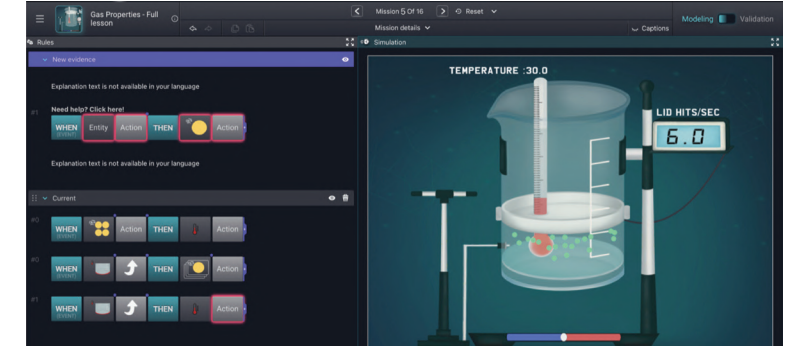


Pixel and Spark foster Computational Thinking in Grades 1-3 and 3-6, respectively. These applications introduce young minds to the realm of logical reasoning through immersive characters and enjoyable activities. They provide students with valuable insights into fundamental concepts like cause and effect,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



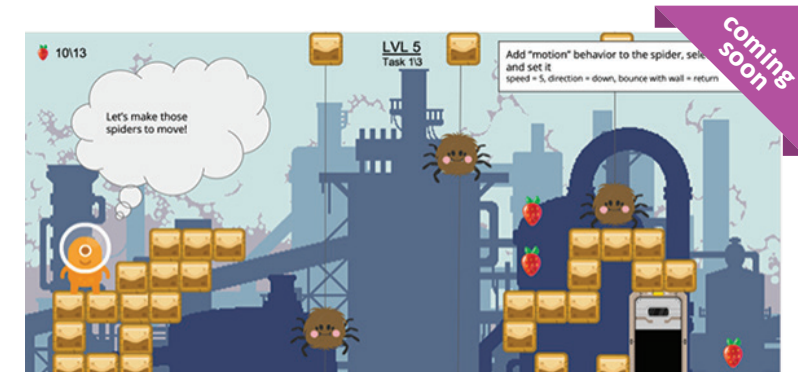
Cosmos Science. Grades 7-9

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.



Gamelab 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



"...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

New

einstein™ Tablet3Pro
Android all-in-one science tablet
+14 (including camera) built-in sensors

OR

New

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

New

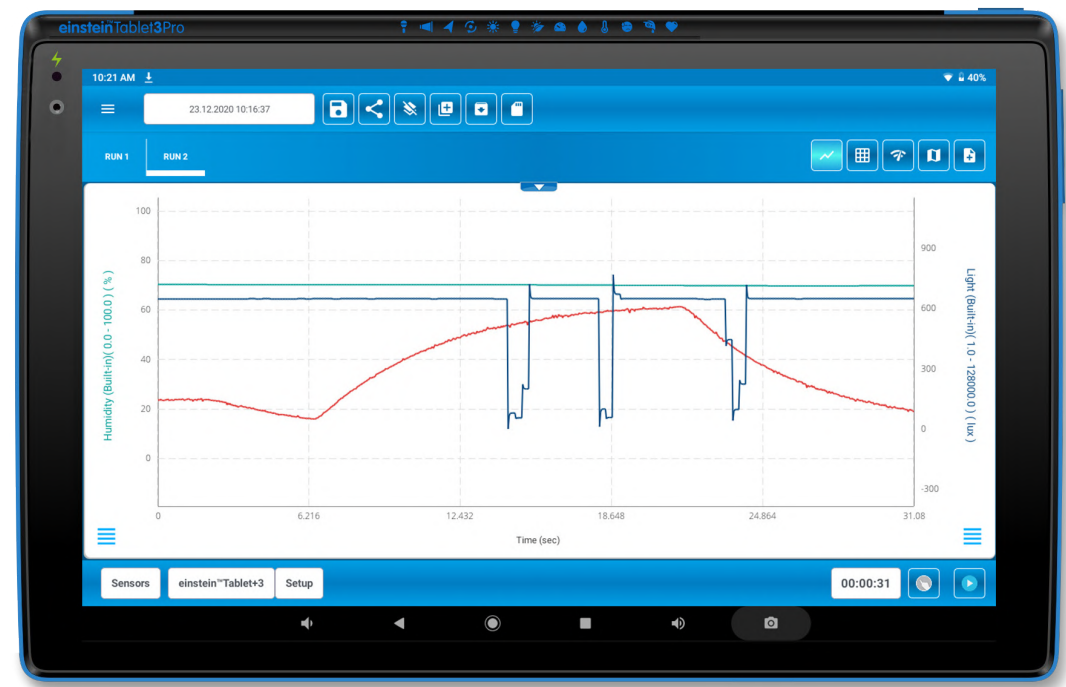
einstein™ LabMateII Lite
W/O Sensors
No internal sensors included



New


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
-  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 3 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

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
-  **New** Par
-  Video



Future-Ready Skill Sets



Curiosity and Investigation



Innovative Thinking



Independent inquiry



Critical Thinking



Self-Motivation



Collaboration



Adaptability



Problem Solving



computational thinking

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

-  Heart Rate
-  Temperature
-  Humidity
-  Barometer
-  UVI
-  Light
-  Heat Index
-  Dew Point

Features

-  High Sample rate
-  Connect up to 8 additional (external) Sensors
-  Offline mode experiments
-  Indoor and outdoor experiments
-  Auto Sensors recognition
-  Internal memory up to 750K samples
-  Long lasting Battery
-  USB Connection
-  Long wireless range Bluetooth (BLE)



The **einstein™** LabMateII and LabMateII Lite include free license to use for the **MiLABEx** software with its 3 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

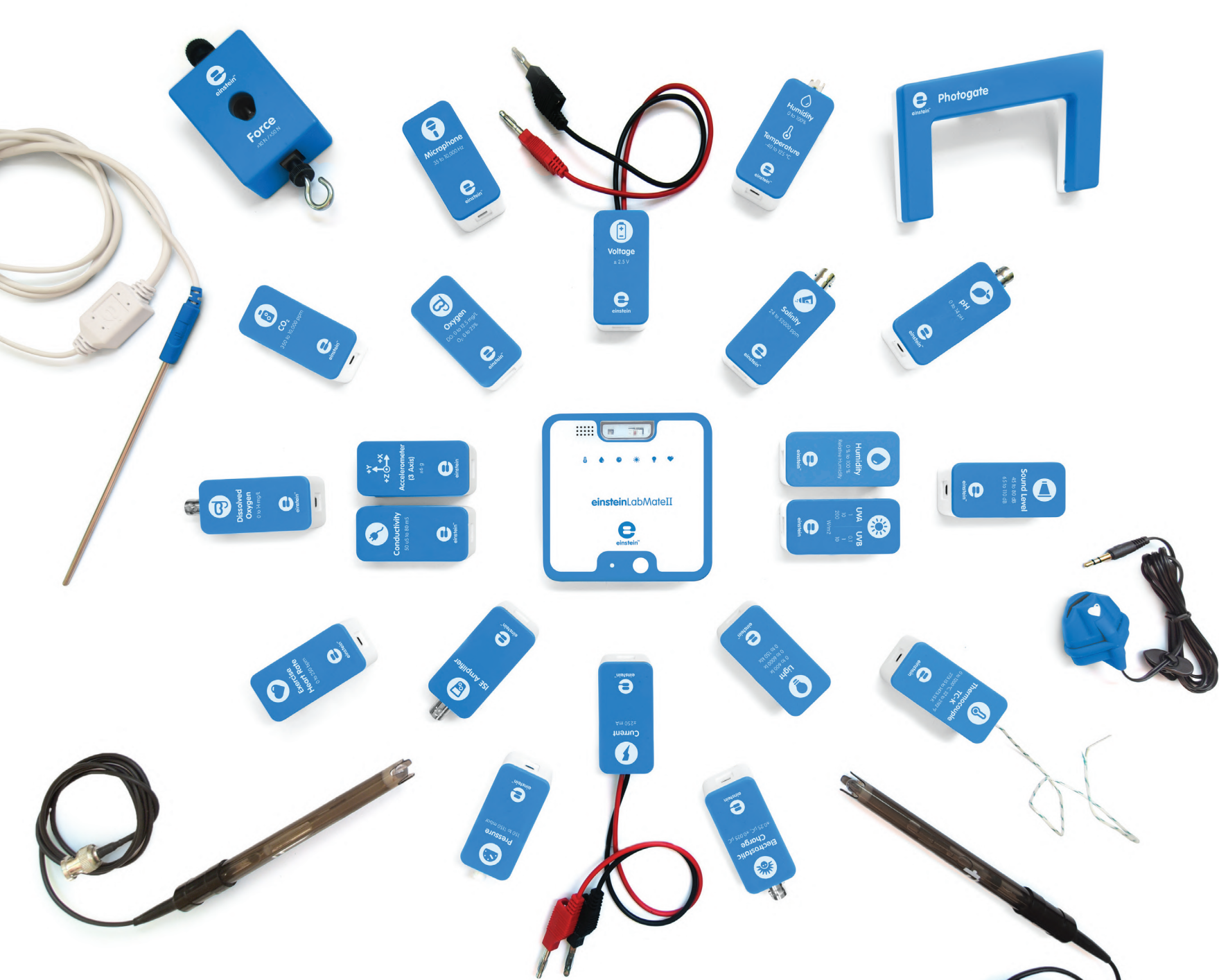
einstein™ LabMateII Lite W/O Sensors

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.
-  **USB Connectivity:** Ensures simple and reliable operation.
-  **Power Supply** via power cable, no 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			
Biology Bundle	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					
Physics Bundle	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		
Chemistry Bundle	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
Environmental	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					
Human Physiology Bundle	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 not applicable with the LabMate W/O sensors

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™ Tablet3Pro
Includes **14** Built-in sensors

OR



einstein™ LabMateII
Includes **8** Built-in sensors



einstein™ LabMateII 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 ₂ 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 ₂ 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 not applicable with the LabMate W/O sensors



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/s²) 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 (NH₄⁺) 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





CO₂ Sensor



Range: 350 to 10,000 ppm

This sensor can be used to measure a wide variety of CO₂ concentrations during photosynthesis and chemical reactions in biology and chemistry labs.

ENCO2B040A



CO₂ extended range Sensor



Range: 350 to 100,000 ppm

This sensor can be used to measure a wide variety of CO₂ concentrations during photosynthesis and chemical reactions in biology and chemistry labs.

ENCO2B040A-N



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 *



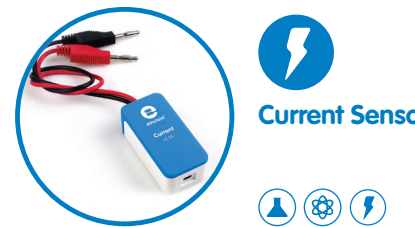
Conductivity range: 0.05 - 80 mS

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



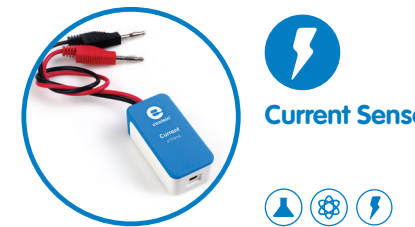
Current Sensor



Range: ±2.5 A

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

ENCRN006



Current Sensor



Range: ±250 mA

ENCRN005



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



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.



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

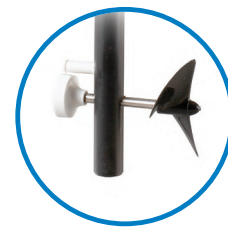


Force Sensor

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

ENOXT422A



Combined Oxygen Sensor with Electrode*



Range: 0 to 12.5 mg/L DO | 0 to 25% O₂

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



NEW



 **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 *



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)



 **PM Sensor**



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 10⁻⁶ 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 μ M 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



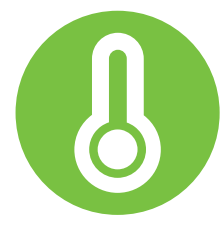
Soil Moisture Sensor



Range: 0 to 200 cbar

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

ENSOI-A171



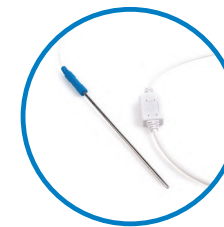
Ambient Temperature

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: \pm 315 L/min, \pm 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



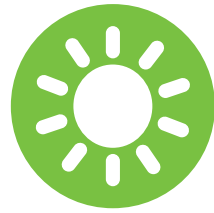
Range: 0 to 200 NTU

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/m² | 10 W/m² | 200 W/m²

Range UVB:
280nm - 320 nm | 100 mW/m² | 1 W/m² | 10 W/m²

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

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

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

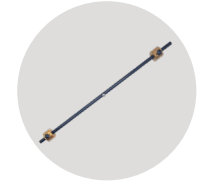
13877



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 CO₂ sensor

A waterproof sleeve for the CO₂ sensor for measuring the CO₂ 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

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