



Digital science education
The complete solution by PHYWE

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Digital science education

The complete solution by PHYWE

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This is how **digital teaching** works today

Whether classroom teaching, homeschooling or teaching in nature – the way of teaching has changed. Digitalization has reached us in all areas of life, and this also applies to our schools. Many programs were initiated so that school lessons can be designed in a contemporary way. Funding is not enough, however – you need practical solutions for teaching science.

At PHYWE, we have developed a concept for digital teaching that consists of four components:



Experiment sets



Sensors



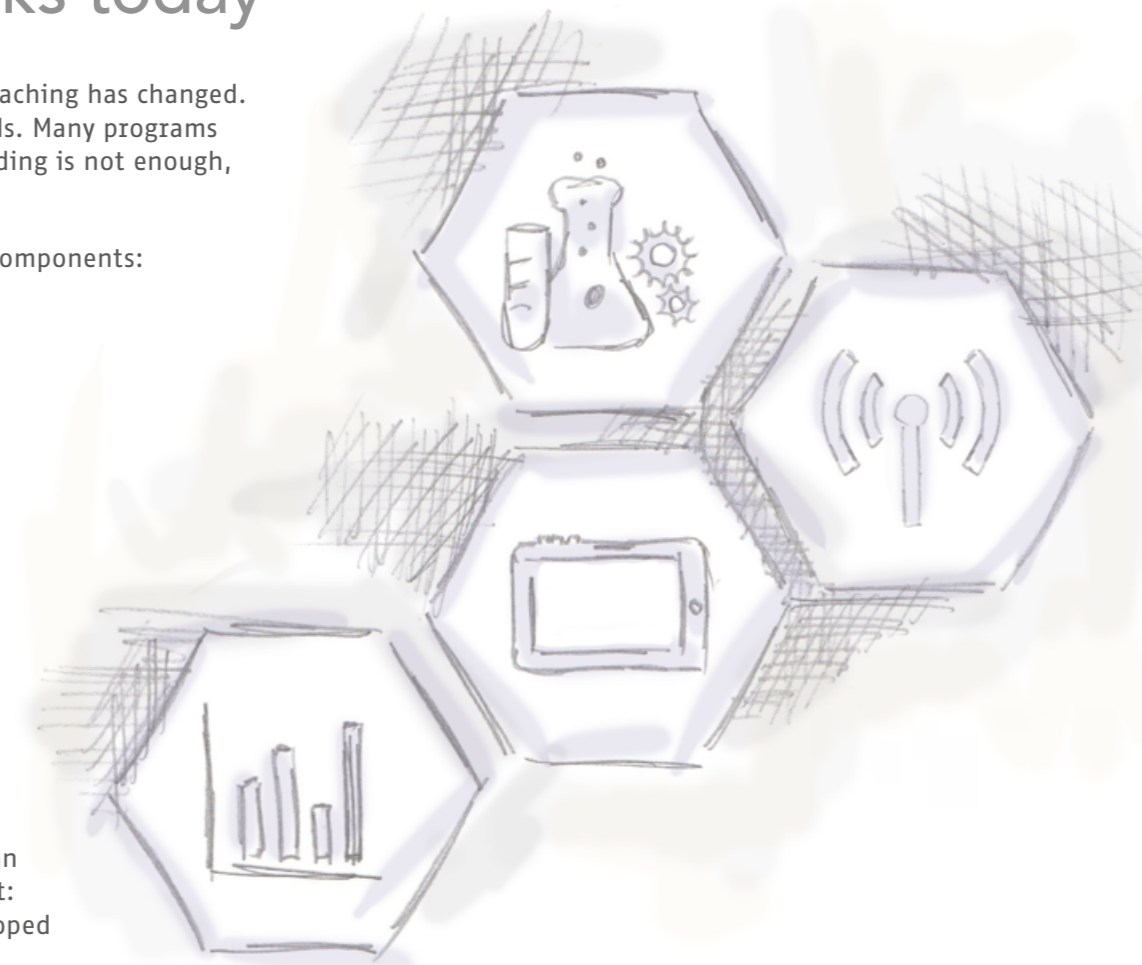
Display unit



Software

With this well thought out solution that relates directly to your curriculum, you can design your school lesson simple, progressive and time-saving. Be state-of-the-art: Work with modern, high-performance hardware, supported by our specially developed software and combine this individually with our digital sensors and the tried and tested TESS sets.

Get to know our digital product portfolio now.



Digital science education in the classroom

Simple. Direct. Experiment.

Face-to-face teaching rethought through the use of experiment sets that conform to the curriculum, state-of-the-art sensors, powerful display units, the most advanced measurement software and excellent teaching and learning platform.

 **Cobra SMARTlink** 
Simple. Digital. Experiment.



Cobra SMARTlink is a state-of-the-art, high-performance 3-in-1 tablet: Measuring device, display unit and Android-tablet for your digital science education. Especially good, easy and reliable to use in student experiments.

Further info on page 8

Item no: 12999-99

 **measureAPP** 
Simple. Mobile. Measurement.



measureAPP is the mobile app for quick and easy datalogging of measured values in your digital science education.

Further info on page 18

Item no: 14581-61



A group of students experimenting with the experiment "Generating an alternating voltage, rectifying and smoothing with Cobra SMARTsense (P1331369)

Classroom teaching



curricuLAB® 
Simple. Digital. Teaching.




curricuLAB® is the award-winning teaching and learning platform for a quick and uncomplicated access to digital science education.

Further info on page 16

Item no: 14577-62



Cobra SMARTsense 
Simple. Intuitive. Measurement.



With the Cobra SMARTsense sensors, PHYWE offers the ideal solution for the inexpensive implementation of digitization of school lessons.

Further info on page 10



Experiment sets for students (TESS)
Simple. Complete. Experiment.



With TESS, PHYWE offers a simple, safe and time-saving solution for student experiments in digital science.

Further info on page 20

Digital science education at home

Simple. Networking. Experiment.

Homeschooling means digital teaching outside of school. In order for you to make this just as efficient and successful as your classroom teaching, you need an excellent teaching and learning platform, easy-to-use sensors, a powerful display unit and advanced measurement software.



Cobra SMARTlink



Simple. Digital. Experiment.



The 3-in-1 Cobra SMARTlink tablet is the ideal display unit for digital content in the context of homeschooling. Thanks to the large number of integrated sensors, it is also perfect for experimenting at home.

Further info on page 8

Item no: 12999-99



measureAPP



Simple. Mobile. Measurement.



The measuring software measureAPP, which is available for all platforms and devices, is the ideal accompaniment for your students in homeschooling.

Further info on page 18

Item no: 14581-61



A homeschooling student taking measurements with the measureAPP. A teacher evaluating the measurement results communicated to students.

Homeschooling



curricuLAB®



Simple. Digital. Teaching.



The excellent teaching and learning platform curricuLAB® is perfectly suited for providing your digital learning content and experimental literature in homeschooling.

Further info on page 16

Item no: 14577-62



measureLAB



Simple. Precise. Measurement.



The measurement software measureLAB supports you with very fast measurement recordings and with the detailed evaluation of your own measurement results and those of the students.

Further info on page 19

Item no: 14580-61



Experiment sets for teachers (DEMO)

Simple. Complete. Demonstrate.



Our experiment sets for teachers are perfect for demonstration experiments in the context of homeschooling.

Further info on page 22

Digital science education in nature

Simple. Mobile. Experiment.

Mobile teaching in the environment and in the field is very important, but it poses a number of challenges. Be perfectly prepared with specially coordinated experiment sets, mobile and durable measuring devices and display units, robust sensors and advanced measuring software.







 **Cobra SMARTlink**    
Simple. Digital. Experiment.



With its long-lasting battery, the large and bright display and the already integrated sensors, the 3-in-1 Tablet Cobra SMARTlink is perfect for experimenting in nature.

Further info on page 8

Item no: 12999-99

 **measureAPP**     
Simple. Mobile. Measurement.



The mobile measuring software measureAPP is the ideal companion for the simple and fast acquisition of measured values, also in the environment and in the field.

Further info on page 18

Item no: 14581-61



Teaching in nature



curricuLAB®  
Simple. Digital. Teaching.





The curricuLAB® teaching and learning platform is perfect for the provision of your digital learning content and descriptions of experiments in nature.

Further info on page 16

Item no: 14577-62



Cobra SMARTsense  
Simple. Intuitive. Measurement.



Our mobile Cobra SMARTsense sensors are ideal for teaching in nature.

Further info on page 10



Experiment sets for students (TESS)
Simple. Complete. Experiment.



Our experiment sets for students, specially designed for use in nature, include everything you need outside of the classroom.

Further info on page 20



Cobra SMARTlink



Simple. Digital. Experiment.



Cobra SMARTlink is a state-of-the-art, high-performance 3-in 1 tablet:

- **Measuring device:** Start measuring directly with 7 integrated sensors and the pre-installed measurement software measureAPP, 4 USB-Ports for connection of additional sensors, microphone and GPS-sensor
- **Display unit:** A brilliant 10.1" display offers sufficient space for all applications
- **Android tablet:** Access to more than 3 million apps in the Google Play Store

Especially recommended for student experiments as it can be used simple, good and reliably.



"Everything you need, exactly what you want."



Start measuring directly with 7 integrated sensors and the pre-installed measurement software measureAPP:

- Acceleration
- Temperature (2x)
- Current
- Light
- UV
- Voltage
- Humidity

Enough power for all your applications.



A powerful 8-core processor with a clock rate of 2 GHz, 4 GB of RAM and a 64 GB SSD hard drive ensure that everything always runs smoothly.

In case you need a little more.



More than 40 Cobra SMARTsense sensors can be connected via Bluetooth and USB.

On your marks, get set, go!



The pre-installed measureAPP offers more than 150 experimental descriptions for all subjects.

Perfect for experimenting, but not only.



There are more than 3 million apps from the Google Play Store ready for use.

Everything in perfect view.



The brilliant 10.1" full HD display offers sufficient space and a razor-sharp display.

Battery for the whole day ... and more.



The large battery with 6,000 mAh ensures use throughout the (school) day.

Everything you need in perfect storage.












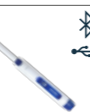



The accessories for the Cobra SMARTlink include 2 connection cables 4 mm (red, blue), 2 temperature sensors type K, a USB type C charging cable with charging adapter and an easily understandable manual. The sturdy packaging cardboard including storage box enables a quick check for completeness.





















Cobra SMARTsense








Simple. Intuitive. Measurement.
















Cobra SMARTsense Sensors for Physics													
Sensor	Voltage	Current	Force & Acceleration	Temperature	Dual Photogate	Pressure	Acceleration	Motion	3-Axis Magnetic field	Light	Radioactivity	Surface Temperature	High Current
Image													
Measured value	Voltage	Current	Acceleration	Temperature	Time	Pressure	Acceleration	Distance	Magnetic flux	Brightness	Radioactivity	Surface Temperature	Current
Measurement range	± 30 V *	± 1 A *	± 50 N / ± 16 g	- 40...120 °C	0 ... ∞ s	20...400 kPa	± 8 g	0,20...2 m	130 mT / 5 mT	1...128 klx	0...40000 c/min	- 25...125 °C	±10 A *
Resolution	0,02 V	0,5 mA	30 mN	0,01 °C	0,01 ms	0,1 kPa	0,01 g	1 mm	0,1 mT / 0,001 mT	1 lx	1 c/min	0,1 °C	10 mA
Sampling rate	1 kHz / 10 kHz	1 kHz / 10 kHz	1000 Hz	10 Hz	1000 Hz	500 Hz	100 Hz	50 Hz	20 Hz	10 Hz	100 Hz	10 Hz	1000 Hz
Battery	Li-ion battery	Li-ion battery	Li-ion battery	CR2032	Li-ion battery	Li-ion battery	Li-ion battery	Li-ion battery	Li-ion battery	Li-ion battery	Li-ion battery	Li-ion battery	Li-ion battery
Item number	12901-01	12902-01	12943-00	12903-00	12945-00	12905-01	12907-01	12908-01	12947-00	12906-01	12937-01	12917-01	12925-00

Cobra SMARTsense Sensors for Chemistry													
Sensor	pH	Conductivity	Dropcounter	Colorimeter	Thermocouple	Nitrate Ion	Ammonium Ion	Chloride Ion	Calcium Ion	Potassium Ion	Oxygen Reduction Potential (ORP)	Temperature	Methane
Image													
Measured value	pH	Conductivity	Drop count	Transmission	Temperature	Nitrat-Concentration	Ammonium-Concentration	Chloride-Concentration	Calcium-Concentration	Potassium-Concentration	Redoxpotential	Temperature	Methane-Concentration
Measurement range	0...14 pH	0...20.000 µS/cm 0...100 °C	0...∞ Imp	0...100 %, 0...3 abs, 0...400 NTU	-200...1.200 °C	0,6...6200 ppm	0,9...1800 ppm	1,8...3550 ppm	0,4...4000 ppm	0,4...3900 ppm	-2000...2000 mV	- 40...120 °C	0...10000 ppm
Resolution	0,01 pH	8 µS/cm, 0,1 °C	30 Imp/s	0,1%, 0,01 abs	0,1 °C	2 ppm	0,5 ppm	1 ppm	1 ppm	1 ppm	1 mV	0,01 °C	3 ppm
Sampling rate	100 Hz	10 Hz	50 Hz	1 Hz	10 Hz	100 Hz	100 Hz	100 Hz	100 Hz	100 Hz	100 Hz	10 Hz	100 Hz
Battery	CR2032	CR2032	Li-ion battery	Li-ion battery	Li-ion battery	CR2032	CR2032	CR2032	CR2032	CR2032	CR2032	CR2032	Li-ion battery
Item number	12921-00	12922-00	12923-00	12924-01	12938-01	12912-00	12913-00	12914-00	12915-00	12916-00	12927-00	12903-00	12949-00

Cobra SMARTsense Sensors for Physics					
Sensor	Rotary Motion	Energy	Sound	Wide Range Temperature	Photogate
Image					
Measured value	Angle	Current, Voltage Work	Sound level	Temperature	Time
Measurement range	30 rps	± 30 V / ± 1 A	0,1..15 kHz /55..110dB	- 20...330 °C	0 ... ∞ s
Resolution	0,125°	1mV; 40 µA	0,1 dB	C = 0,01°C	0,01 ms
Sampling rate	100 Hz	100 Hz	10 Hz (Soundlevel); 32kHz (Soundsignal) at USB	10 Hz	1000 Hz
Battery	Li-ion battery	Li-ion battery	Li-ion battery	CR2032	Li-ion battery
Item number	12918-00	12919-00	12939-00	12910-00	12909-00

Cobra SMARTsense Sensors for Science						
Voltage	Current	Temperature	Force & Acceleration	Light	CO ₂	Humidity
						
Voltage	Current	Temperature	Acceleration	Brightness	CO ₂ Concentration	Humidity
± 30 V *	± 1 A *	- 40...120 °C	± 50 N / ± 16 g	1...128 klx	0...100.000ppm	0...100 % rH
0,02 V	0,5 mA	0,01 °C	30 mN	1 lx	2 ppm	0,1 % rH
1 kHz / 10 kHz	1 kHz / 10 kHz	10 Hz	1000 Hz	10 Hz	1 Hz	10 Hz
Li-ion battery	Li-ion battery	CR2032	Li-ion battery	Li-ion battery	Li-ion battery	Li-ion battery
12901-01	12902-01	12903-00	12943-00	12906-01	12932-01	12931-01

Cobra SMARTsense Sensors for Biology													
Sensor	Humidity	EKG	CO ₂	Spizometer	Heart rate	Oxygene	Blood pressure	Skin resistance	Ethanol vapor	Weather station	pH	Conductivity	Methane
Image													
Measured value	Humidity	Voltage	CO ₂ -Concentration	Volume flow	Heare rate	CO ₂ -Concentration	Blood pressure	Skin resistance	Ethanol-Concentration	Pressure, Humidity, Temperature	pH	Conductivity	Methane-Concentration
Measurement range	0...100 % rH	0...4,5 mV	0...100.000ppm	± 10 l/s	30...200 bpm	0...20 mg/l 0...100 %	30...200 bpm	0...10 µS	0...3 %	0...10 µS	0...14 pH	0...20.000 µS/cm 0...100 °C	0...10000 ppm
Resolution	0,1 % rH	4,5 µV	2 ppm	0,01 l/s	1 bpm	0,01 mg/l, 0,1 %	1 bpm	0,01 µS	...	0,01 µS	0,01 pH	8 µS/cm, 0,1 °C	3 ppm
Sampling rate	10 Hz	1000 Hz	1 Hz	200 Hz	10 Hz	100 Hz	10 Hz	100 Hz	100 Hz	0,01 µS	100 Hz	10 Hz	100 Hz
Battery	Li-ion battery	Li-ion battery	Li-ion battery	Li-ion battery	Li-ion battery	Li-ion battery	Li-ion battery	Li-ion battery	Li-ion battery	Li-ion battery	CR2032	CR2032	Li-ion battery
Item number	12931-01	12934-01	12932-01	12936-01	12935-01	12933-01	12944-00	12942-00	12948-00	12946-00	12921-00	12922-00	12949-00

* Overvoltage protection

* Overvoltage protection

Accessories:		
USB quick charger with 6 USB ports	Item number: 07934-99	
Button cell CR2032, 3V (2 pcs)	Item number: 07922-17	
measureAPP	Item number: 14581-61 for free	



SensorCases for Cobra SMARTsense

Simple. Perfect. Storage.

The SensorCases Cobra SMARTsense are the smart solution for comfortable and mobile storage. The sturdy sensor cases with 16-fold automatic charger, robust wheels and pull-out bare telescopic handle contain all equipment in a box with up to 56 Cobra SMARTsense sensors in stable foams.

SensorCase Cobra SMARTsense | PHYWE



1x



Cobra SMARTsense – Temperature, -40 ... 120 °C	Item number: 12903-00	16 units
Cobra SMARTsense – Thermocouple, -200 ... +1200 °C (Bluetooth + USB)	Item number: 12938-01	16 units
Cobra SMARTsense – pH, 0 ... 14 (Bluetooth)	Item number: 12921-00	16 units
Cobra SMARTsense – Dropcounter, 0 ... ∞	Item number: 12923-00	1 units
SensorCase for Cobra SMARTsense	Item number: 12980-00	1 units
SensorCase Cobra SMARTsense, Chemistry, 16-fold		Item number: 12982-88 Set



1x



Cobra SMARTsense – Voltage, ± 30 V (Bluetooth + USB)	Item number: 12901-01	16 unit
Cobra SMARTsense – Current, ± 1 A (Bluetooth + USB)	Item number: 12902-01	16 unit
Cobra SMARTsense – Temperature, -40 ... 120 °C	Item number: 12903-00	16 unit
Cobra SMARTsense – Force and Acceleration	Item number: 12943-00	8 unit
SensorCase for Cobra SMARTsense	Item number: 12980-00	1 unit
SensorCase Cobra SMARTsense, Physics, 16-fold		Item number: 12981-88 Set



1x



Cobra SMARTsense – Temperature, -40 ... 120 °C (Bluetooth)	Item number: 12903-00	16 units
Cobra SMARTsense – CO ₂ , 0 ... 0 ... 100000 ppm (Bluetooth + USB)	Item number: 12932-01	8 units
Cobra SMARTsense – Heart Rate, 30 ... 200 bpm (Bluetooth + USB)	Item number: 12935-01	16 units
Cobra SMARTsense – EKG, 0 ... 4,5 mV (Bluetooth)	Item number: 12934-00	8 units
SensorCase for Cobra SMARTsense	Item number: 12980-00	1 units
SensorCase Cobra SMARTsense, Biology, 16-fold		Item number: 12983-88 Set



Cobra SMARTexperiments

Simple. Smart. Experiment.

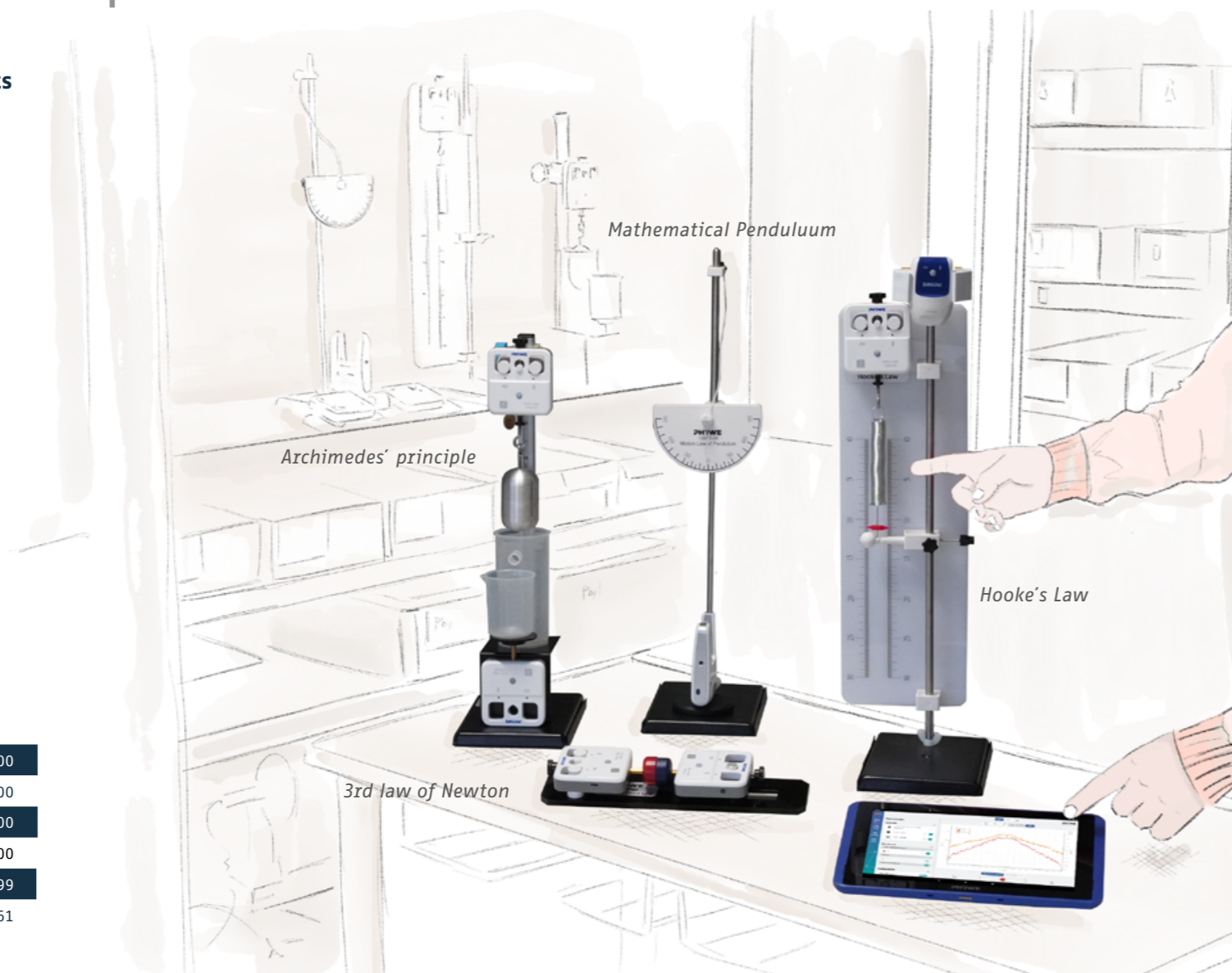


Cobra SMARTexperiments contain all components and sensors necessary for measurement

All-in-one-experiment – no lengthy setup, no interface necessary!

- Remove from cabinet
- Switch on
- Quick and intuitive measurement

3rd law of Newton	Item number: 12973-00
Hooke's law	Item number: 12970-00
Mathematical pendulum	Item number: 12972-00
Archimedes' principle	Item number: 12971-00
USB quick charger with 6 USB ports	Item number: 07934-99
measureAPP	Item number: 14581-61



Cobra DigiCart

Simple. Complete. Dynamic.



The All-in-One System Cobra DigiCart – the whole world of dynamics and kinetics in one set.

- 8 experiments in Basic set and additional 4 experiments in Expert-Set
- 4 integrated sensors (Force-, Speed-, Acceleration- and Positionsensor)
- Communication via modern Bluetooth technology
- Powerful, longlasting Lithium-ion batteries with automatic charge protection
- Simple charging via USB

Cobra DigiCart Basic Set	Item number: 12940-77
Cobra DigiCart Basic Set (without DigiCart)	Item number: 12940-10
Cobra DigiCart Expert Set	Item number: 12940-88
Cobra DigiCart Expert Set (without DigiCarts)	Item number: 12940-20
Cobra DigiCart (blue)	Item number: 12940-01
Cobra DigiCart (white)	Item number: 12940-00
Cobra DigiCartApp	Item number: 14582-61



iOS





curricuLAB®  

Simple. Digital. Teaching.

With the new teaching and learning platform **curricuLAB® PHYWE** offers a fast and uncomplicated entry into digital teaching. With more than 1800 curriculum-compliant contents for all topics (physics, chemistry, biology or nature and technology), more than 400 in digital form, and thousands of additional contents **curricuLAB®** is one of the biggest experiment data bases for the digital science lessons.

Something for everyone.

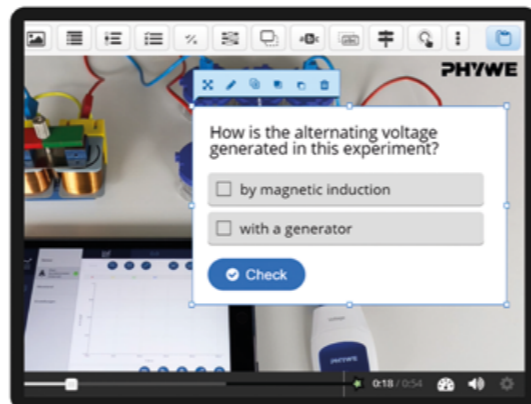
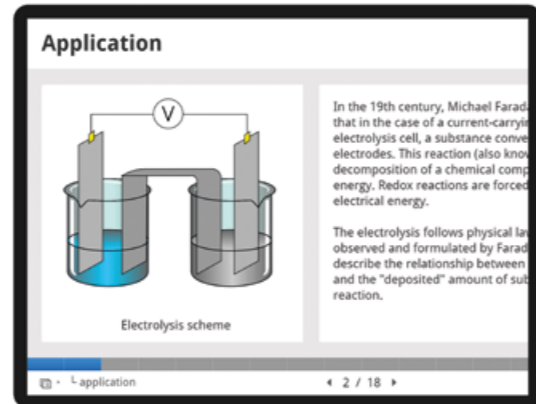
More than 4000 didactical based and interactive teaching and learning contents.

Learning content, that inspires.

Interactive and practical content motivates and makes you want more.

It could hardly be easier.

The intuitive editor makes every change a breeze.



curricuLAB® PHYWE



Awarded with the Comenius-EduMedia-Seal 2020 as a teaching and learning management system of outstanding pedagogical, content and design quality.

No limits to creativity.

Choose from more than 40 highly interactive content types to create your own content.



Share content quickly and easy.

Sharing of content using links or QR codes that comply with data protection regulations.



For all platforms and end devices.

curricuLAB® is platform-independent and runs on all Internet-capable end devices.



What our customers say:



Max Metelmann
Schloß-Gymnasium Benrath, Düsseldorf

"The new curricuLAB® combines classical, analogue experiments with digital innovations such as quiz questions and cloze texts in one document. This opens the doors for modern, digital and student-oriented teaching."



Peter Gromes
Comenius-Schule, Herborn

"curricuLAB® offers an excellent basis for student experiments in the classroom. A truly successful tool for the digital age."



Marija Vlaski
Adorno-Gymnasium, Frankfurt am Main

"With curricuLAB® we can easily prepare our learning content in a digital and modern way - for teaching and working at home. We can create the content in the student council and then quickly adapt it individually according to the personal ideas of our colleagues. For us this is a real workload reduction!"

Would you like to test **curricuLAB®** without obligation?
Then get your free demo access in 2 minutes at www.curriculab.de.

curricuLAB® Single license Item number: 14578-62

curricuLAB® School license Item number: 14577-62



measureAPP     

Simple. Mobile. Measurement.

PHYWE measureAPP is the app for simple and fast data logging in your digital science education. In combination with our Cobra SMARTsense sensors we offer you an intuitive, simple and modern overall solution that leaves nothing to be desired.



Awarded the Comenius-EduMedia-Seal 2020 as an educational medium which is outstanding in terms of pedagogy, content and design.

So simple that it's almost too simple.

Quick and intuitive measuring (just 2 clicks for data recording).

Data exchange made easy.

Wireless data exchange and connection of Cobra SMARTsense sensors via bluetooth and USB.

Something for everyone.

Find and open more than 150 experiment descriptions directly in the app.

Your ideal companion.

Create individual notes, photos or videos to document the measurement results.



measureLAB  macOS 

Simple. Precise. Measurement.

The software measureLAB assists you and your students with analyzing your experiment data: No matter if it's a simple integral or a fully automatic equivalence point calculation, measureLAB is the measuring-software of your choice. And more than 150 preconfigured experiments reduce your preparation time to a minimum.



Cobra Xpert-Link: The high-end system for demanding measurements at high speed.

Professional measurements – easy done.

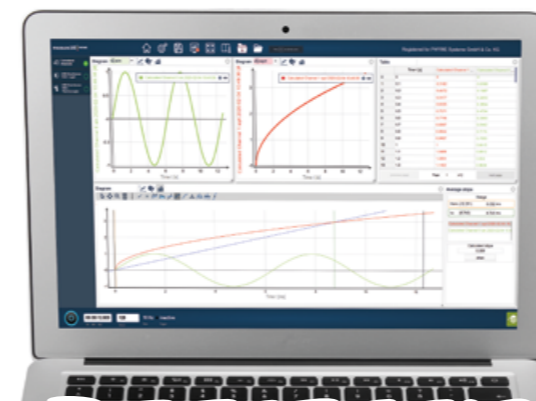
Measurement speeds of up to 10 MHz, as well as extensive evaluation functions and data processing options.

Easy connections.

Wireless data transfer via Bluetooth, WLAN or USB.

Something for everyone.

Find and open more than 150 experiment descriptions directly in the software.



measureAPP –the free measurement software for all devices and operating systems Item number: 14581-61

measureLAB multi user licence Item number: 14580-61

Cobra Xpert-Link Item number: 12625-99





Experiment sets for students (TESS)

Simple. Complete. Experiment.

Faculty/Subject	Topic	TESS Digitalset (Item number)	Number of experiments	
SCIENCE	Substances in everyday use	15234-88D	15	
	Mechanical devices in everyday use	15239-88D	12	
	Electrical and magnetic devices in everyday use	15238-88D	15	
	Water	15233-88D	14	
	Heat	15235-88D	13	
PHYSICS	Mechanics	Physical quantities, forces, simple machines, ...	25271-88D	32
		Thermodynamics	Temperature, thermal properties of liquids	25274-88D
	Electricity	Equipotential lines and electric field	15250-88D	5
		Simple circuits and electrical resistance, ...	25264-88D	28
		Electromagnetism	25269-88D	9
		Electric motor/Generator	15221-88D	10
		Renewable energies: basics and thermal energy	25287-88D	17
	Optics	Optical instruments	25277-88D	30
		Optics/Atom physics	15350-88D	16
	Radioactivity	Radioactivity	25261-88	11
CHEMISTRY	General chemistry	25300-88D	25	
	Inorganic chemistry	25301-88D	35	
	Acids, bases, salts	25302-88D	31	
	Analytical chemistry	25303-88D	14	
	Organic chemistry	25304-88D	36	
	Polymer chemistry	15305-88D	18	
	Food chemistry	25306-88D	39	
	Electrochemistry	30505-88D	23	
BIOLOGY	General biology	25296-88D	41	
	Biochemistry and plant physiology	15620-88D	11	
	Environment and outdoor	12626-88D	12	
	Human- and Electrophysiology	25674-88D	9	



Our experiment sets for students offer a simple, safe and time-saving solution for experimenting in digital science education.

There are 27 digital TESS sets available with 542 experiments. The sets contain everything your students need for a variety of experiments.





Experiment sets for teachers (DEMO)

Simple. Complete. Demonstrate.

DEMO | PHYWE

Faculty/Subject	Topic	TESS Digitalset (Item number)	Number of experiments	
SCIENCE	Water	13234-88	5	
	Heat	13236-88	5	
PHYSICS	Mechanics	Physical quantities, forces, simple machines, ...	15510-88	24
		Force effect, friction, liquids and gases	15511-88	19
		Linear motion	15514-88	13
	Thermodynamics	Temperature, thermal properties of liquids, ...	15530-88	15
	Electricity	Simple circuits and electrical resistance, ...	15569-88	30
		Induction and electric motor	15571-88	24
		Electromagnetism	25574-88	8
		Electric motor/ Generator	25573-88	8
		Semiconductor components	15572-88	27
		Renewable energies: basics and thermal energy	15580-88	17
		Solar cells, wind energy and hydropower	15581-88	17
		Fuel cells	15582-88	7
		Optics	Geometrical optics	15550-88
	Optical instruments		15560-88	5
	Wave Optics		15565-88	12
	Radioactivity	Radioactivity	15590-88	15
	BIOLOGY	Biochemistry and Plant physiology	15620-88	11



Our experiment sets for teachers are perfect for demonstration of experiments in digital science lessons.

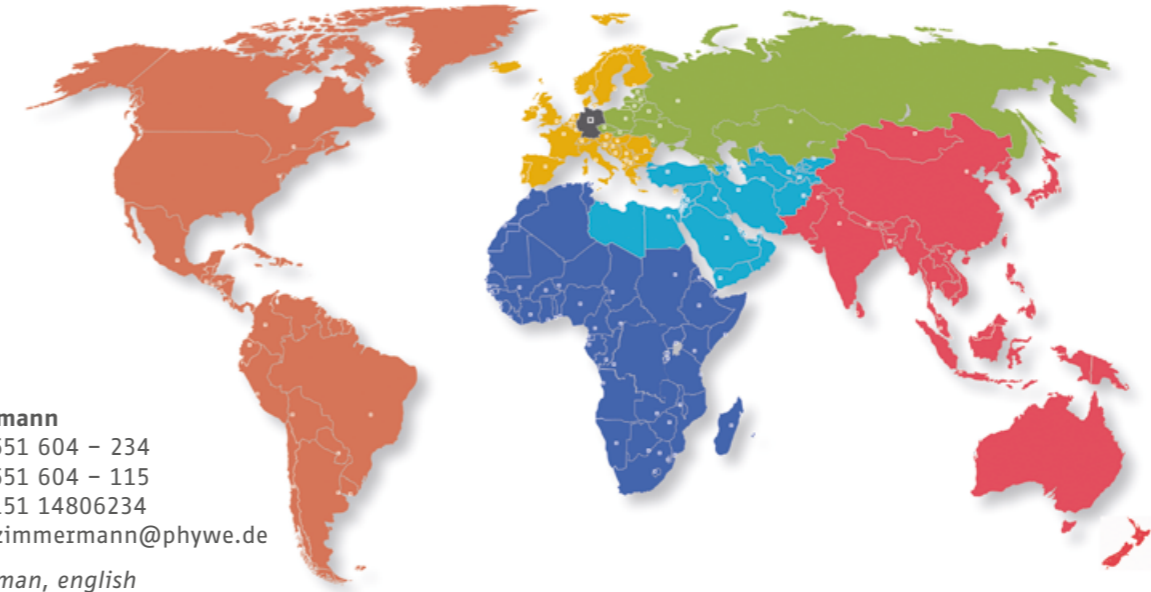
There are 19 digital DEMO-Sets available with 322 Experiments. The sets contain everything you need to perform the experiments.





Our service

Simple. Reliable. Support.



Product support

- Online
- At site

Information center

- Demonstration in our showroom in Göttingen / Germany
- Webinars
- Online-Workshops

Customer support

- Repair
- Spare parts
- Product support

Services to book

- Inventory
- Placement service
- Trainings
 - Online
 - At site



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