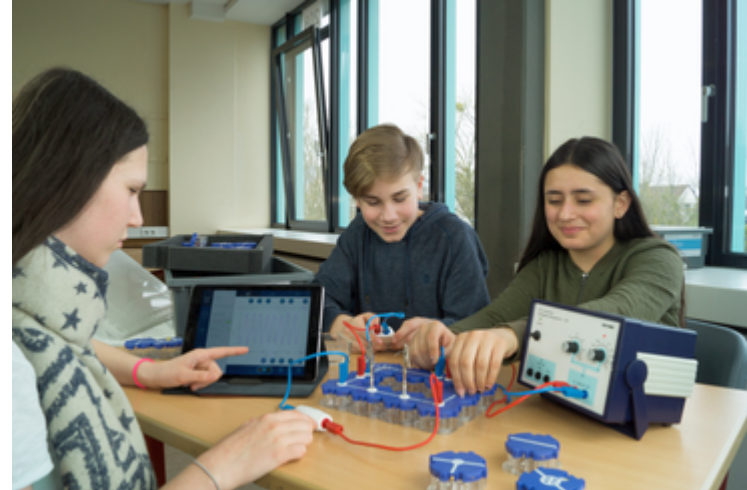


## TECHNICAL DATA

# Student set Electricity / Electronics 1 with Building Blocks, digital sensors and augmented reality content, TESS advanced Physics

Article no: 25264-88DAR



## Function and Applications

Basic set allowing the performance of 28 experiments about the following topics:

- Electric Circuits (8 Experiments)
- Electrical Resistance (8 Experiments)
- Electrical Work and Power (1 Experiment)
- Transformation of Energy (1 Experiment)
- Electrochemistry (6 Experiments)
- Safe Working with Electrical Energy (2 Experiments)
- Sensors (2 Experiments)

In 25 experiments, you can also use the Cobra SMARTsense Voltage and Current sensors in combination with tablets and smartphones instead of the classic measuring device. In addition, digital data acquisition provides further didactic added value in experiments.

## Benefits

- The ideal combination of classic experiments (practical competence) and digital data acquisition (media competence)
- Individual teaching structure possible: you can decide to choose the measuring instrument you want (classic or digital)
- Future-proof: Prepare the transition to the digital school today
- Perfectly matched to digital science lessons with tablets and smartphones
- Faster and higher learning success: The use of digital devices increases the identification and thus increases the motivation of the students
- No additional cable connections between the different parts required - clearer and faster setup
- Secure contact through puzzle-like components
- Gold plated, corrosion resistant contacts
- Double learning success: Electrical circuit diagram visible on the top and right components on the underside
- Easy teaching and efficient learning through the digital experiment descriptions enclosed as QR codes

## Equipment and Technical Data

- The equipment set consists of all necessary components for the experiments
- Cobra SMARTsense Voltage: Measuring range:  $\pm 30$  V, resolution: 0.02 V, sampling rate: 1000 Hz (10000 via USB)
- Cobra SMARTsense Current: Measuring range:  $\pm 1$  A, resolution: 0.5 mA, sampling rate: 1000 Hz (10000 via USB)

Scope of delivery

Student set Electricity / Electronics 1 with Building Blocks, TESS advanced Physics	25264-88	1
Cobra SMARTsense Voltage - Sensor for measuring electrical voltage $\pm 30\text{ V}$ (Bluetooth + USB)	12901-01	1
Cobra SMARTsense Current - Sensor for measuring electrical current $\pm 1\text{ A}$ (Bluetooth + USB)	12902-01	1
Argumented Reality content for 8 experiments TESS set Electricity	25264-AR	1

Necessary accessories

Student set Electrics /Electronics 1, necessary accessories for 1 group, TESS advanced Physics	13470-88
Student set Electrics / Electronics 1, consumables for 10 groups, TESS advanced Physics	13471-88

Recommended accessories

USB quick charger with 8 USB ports	07934-99
Carrying system for student experiment boxes	25200-00