

Student set Human and electrophysiology digital for 10 experiments, TESS advanced Biology

Item No. 15676-88D



Function and Applications

Heart rate, pulse, lung volume, body temperature and blood pressure are the core parameters of human and electrophysiology. With our set, you can vividly teach students the meaning of these terms. The set contains our Cobra SMARTsense sensors that are easy to operate and take measurements in real time.

Equipment set allowing the performance of 10 experiments about the following topics:

- Electrophysiology of the heart (3 experiments)
- Blood circulation (1 experiment)
- Skin temperature (1 experiment)
- Lung function, lung volume (3 experiments)
- Lung diseases (1 experiment)
- Stroop effect, lie detector (1 experiment)

Benefits

- For datalogging with mobile devices (iOS, Android, Windows).
- Complete equipment set, no further accessories required.
- Easy to operate (plug & measure), thus also suitable for all education levels.

Equipment and Technical Data

The equipment set consists of all necessary components for the experiments:

- Stable, stackable storage box with device-molded, molded foam insert
- Cobra SMARTsense ECG
- Cobra SMARTsense Pulse
- Cobra SMARTsense Temperature
- Cobra SMARTsense Spirometer
- Cobra SMARTsense Skin resistance
- Cobra SMARTsense Blood pressure

Scope of supply

Cobra SMARTsense EKG - ECG measuring device 0 ... 4,5 mV (Bluetooth + USB)	12934-01	1
Cobra SMARTsense Temperature - Sensor for measuring temperature -40 ... 120 °C (Bluetooth)	12903-00	1
Cobra SMARTsense Spirometer - Sensor for measuring the respiratory volume ± 10 l/s (Bluetooth + USB)	12936-01	1
Cobra SMARTsense Heart Rate - Sensor for measuring the heart rate 30 ... 200 bpm (Bluetooth + USB)	12935-01	1
Cobra SMARTsense Blood Pressure - Sensor for measuring blood pressure 0 ... 375 mmHg (Bluetooth + USB)	12944-00	1
Set with 20 selfsticking electrodes for Cobra SMARTsense ECG and Skin Resistance	12929-00	3
Mouthpiece including Filter for SMARTsense Spirometer	12936-20	1
Rubber bands, 50 pieces	03920-00	1
TESS box, plastics, high, 305 x 425 x 150 mm	15200-01	1
Lid for TESS box, plastic	15205-01	1
Cobra SMARTsense Skin Resistance - Sensor for measuring the conductivity of the skin (GSR) 0 ... 10 μ S (Bluetooth +USB)	12942-00	1
Cardboard mouthpiece with filter for SMARTsense Spirometer	12936-10	1

Necessary accessories

measureAPP - the free measurement software for all devices and operating systems	14581-61
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Recommended accessories

measureLAB, multi-user license	14580-61
Button Cell CR2032, 3V (2 pieces)	07922-17
Set with 20 selfsticking electrodes for Cobra SMARTsense ECG and Skin Resistance	12929-00
Mouthpiece including Filter for SMARTsense Spirometer	12936-20
Cardboard mouthpiece with filter for SMARTsense Spirometer	12936-10
USB quick charger with 8 USB ports	07934-99
Carrying system for student experiment boxes	25200-00