

TECHNICAL DATA

Student set Heat 1 digital, TESS advanced Physics

Article no: 25274-88D



Function and Applications

Basic set allowing the performance of 21 experiments about the following topics:

- Thermal equilibrium and temperature measurement (3 experiments)
- Thermal expansion (4 experiments)
- Heat transfer (2 experiments)
- Thermal energy (4 experiments)
- Change of state (5 experiments)
- Solutions (3 experiments)

In 18 experiments, you can use the Cobra SMARTsense Sensor Temperature in combination with tablets (iOS and Android) and smartphones (Android) instead of the classic measuring device. In addition, the digital data acquisition provides further didactic added value in 6 experiments.

Benefits

- The ideal combination of classic experiments and digital data acquisition
- Individual teaching structure possible: you can choose the 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
- Complete equipment set: simple execution of the experiments
- Real tripod material for a particularly stable and safe construction
- Own construction of a calorimeter strengthens the understanding
- Student-friendly instructions including protocol questions
- RiSU-compliant Bunsen burner available in accessories

Equipment and Technical Data

- The equipment set consists of all necessary components for the experiments
- Robust, stackable storage box with a foam insert fitting to the contained equipment
- Cobra SMARTsense Temperature: Measuring range: -40 ... 120 ° C, resolution: 0.01 ° C, sampling rate: 10 Hz

Scope of delivery

Student set Heat 1, TESS advanced Physics	25274-88	1
Cobra SMARTsense Temperature - Sensor for measuring temperature -40 ... 120 °C (Bluetooth)	12903-00	1
Button Cell CR2032, 3V (2 pieces)	07922-17	1

Necessary accessories

TESS advanced Heat 1 necessary accessories for 1 group	13455-88
TESS advanced Heat 1 consumables for 10 groups	13456-88

Recommended accessories

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