

## Student set Renewable energy 2, Solar / Water / Wind, TESS advanced Applied Sciences

Article no: 25288-88



### Function and Applications

Supplementary equipment set for Renewable Energy Basic set (25287-88). Together with the Renewable Energy Basic set, it is possible to perform 43 student experiments in total:

- Electrical energy from solar energy (11 Experiments)
- Wind energy (8 Experiments)
- Water energy (4 Experiments)
- Parabolic trough power plant (3 Experiments)
- Energy conversion (5 Experiments)
- Heat energy from solar energy (7 Experiments)
- Ambient Heat (5 Experiments)

The experiments also include the recording of characteristic lines of the devices for generating electrical energy which are contained in the sets.

### Benefits

- Complete equipment set: simple execution of the experiments
- The equipment is stored in a rugged, stackable and compact box, allowing quick control of completeness (foam insert)
- Matched with international curriculum: all topics are covered
- Comprehensive treatment of all subjects of energy, its conversion and storage and the use of renewable energy sources in combination with Renewable Energy Basic set in more than 40 experiments
- With this set quantitative treatment of additional relevant key technologies possible
- 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

**Scope of delivery**

Stand rods, stainless steel, various sizes	02031-00	10
Boss head	02043-00	10
Blower, 12V	05750-00	10
Rotor, 2 pieces	05752-01	10
Water pump/ water turbine/ generator	05753-00	1
clamp, d = 16 mm, with mounting rod	05764-00	1
Solar cell 3.3 x 6.5 cm, with plugs, 0.5 V, 330 mA	06752-09	1

Holder for solar cell 3.3 x 6.5 cm, with plugs	06752-08	1
Double sockets,1 pair,red a.black	07264-00	1
Concentrated solar power unit	05765-00	1
Ni-MH accus, size AA, 1.3 Ah / 1.2V, 1 pair	07922-03	1
Connecting cable, 32 A, blue, various lengths	07361-04	1
Dish, plastic, 150x150x65 mm	33928-00	1
On-off switch module, SB	05602-01	1
Straight connector module, SB	05601-01	2
Light emitting diode module red , SB	05654-00	1
Capacitor (gold cap), 1F, SB	05650-10	1
Potentiometer module 250 Ohm, SB	05623-25	1
Battery holder module (AA type), SB	05606-00	1
Interrupted connector module with sockets, SB	05601-04	2
Connecting cable, 32 A, red, various lengths	07361-01	1
Lid for TESS box, plastic	15205-01	1
TESS box, plastics, high, 305 x 425 x 150 mm	15200-01	1
Solar battery, 4 cells, with cable and connectors	06752-22	1

### Necessary accessories

Student set Renewable energy 1, Basics and thermal energy, TESS advanced Applied Sciences	25287-88
Student set Renewable energy 1, necessary accessories for 1 group, TESS advanced Applied Sciences	13480-88

### Recommended accessories

Carrying system for student experiment boxes	25200-00
TESS advanced Renewable Energy EN-BS optional accessories for 1 group	13481-88