

DEMO advanced Applied Sciences Basic Set Renewable Energy, basics and thermal energy

Article no: 15580-88



Function and Applications

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

- Energy Conversion (4 experiments)
- Heat Energy from Solar Energy (3 experiments)
- Energy from Ambient Heat (3 experiments)

Benefits

- Treatment of major interdisciplinary and key technologies
- Rugged magnetically adhesive puzzle blocks featuring contrasted screen-printed electric symbol on top
- Wiring diagram of the experiments can be completely illustrated
- Safe electric contact is guaranteed by the use of a unique puzzle block system with corrosion-free gold plated contacts
- Corresponding students kits available (TESS advanced Renewable Energies): for flexible and competence-oriented science classes
- Expandable by Demo supplementary sets Renewable Energy Solar cells, Wind energy, Hydropower and Fuel Cells
- Easy teaching by using the demo board for demonstration
- Complete equipment set: simple execution of the experiments
- The equipment is stored in a robust aluminum case with removable lid
- Foam insert for a quick control of completeness and secure transport of the set
- Easy teaching and efficient learning through the digital experiment descriptions enclosed as QR codes
- Matched with international Curriculum: all topics are covered

Equipment and Technical Data

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

Scope of delivery

Connector, straight, module DB	09401-01	1
Connector, angled, module DB	09401-02	4
Connector, T-shaped, module DB	09401-03	2
Connector interrupted, module DB	09401-04	2
Junction, module DB	09401-10	2
Socket for incandescent lamp E10 ,module DB	09404-00	1
Switch on/off, module DB	09402-01	1
Switch, change-over, module DB	09402-02	1
Motor with indicating disc, 5 V, module DB	09469-00	1
Solar battery, with cable, connectorsand magnet pads	06752-23	1
Clamping holder with 2 clamping possibilit, 0-13 mm,fixing magnet	02151-08	1
Scale for demonstration board	02153-00	1
Clamp on holder	02164-00	1
Solar ray collector, magnetic	02165-00	1
Funnel, plastic,cylindrical,300ml	36889-00	1
Thermogenerator, Peltier element	04374-00	1
Heat insulating sheet, felt, 100 mm x 135 mm	04375-00	1
Felt sheet, 100 x 100 mm	04404-20	2
Lid for student calorimeter	04404-01	1
Heating coil with sockets	04450-00	1
Apparatus carrier w. fix. magnet	45525-00	1
Beakers, Boro, low form, various sizes	46054-00	2
Beakers, Boro, low form, various sizes	46055-00	2
Agitator rod	04404-10	1
Glass rod, boro 3.3, l=200mm, d=5mm	40485-03	1
Silicone tubing, various diameters	47530-00	1
Pinchcock, width 15 mm	43631-15	1
Filament lamps 1.5V/0.15A,E10,10 pieces	06150-03	1

Connector, angled with socket, module DB	09401-12	1
Motor 12 V, module DB	09475-01	1
Weight holder, 10 g	02204-01	1
Slotted weight, silver bronze, 10 g	02205-03	4
Slotted weight, silver bronze, 50 g	02206-03	1
Fishing line, l. 5m	02089-01	1
Connecting cable, 32 A, yellow, various lengths	07361-02	1
Connecting cable, 32 A, blue, various lengths	07361-04	2
Connecting cable, 32 A, red, various lengths	07361-01	2
Connecting cable, 32 A, yellow, various lengths	07360-02	1
Connecting cable, 32 A, blue, various lengths	07360-04	2
Connecting cable, 32 A, red, various lengths	07360-01	2

Necessary accessories

DEMO advanced Renewable Energy Basic Set , necessary accessories	15580-01
PHYWE Demo Physics board with stand	02150-00

Recommended accessories

Moveable experimental table 90 x 75 cm, 30 mm table top with PP edge, with shelf for 3 boxes and socket board	15500-00
Handbuch Lehrerversuche Erneuerbare Energie auf der Tafel, inkl. CD ROM, DEMO advanced Physik (ENT), (in german)	01157-01
curricuLAB, single licence	14578-62