

DEMO advanced Physics Electricity/Electronics Building Block System, Electromagnetism and Induction

Article no: 15571-88



Function and Applications

Supplementary equipment set for the DEMO Set Electricity (15569-88). In combination with the set Electricity another 24 demonstration experiments can be performed:

- Transformation of Energy (1 experiment)
- Electromagnetism (6 experiments)
- Electric Motors (4 experiments)
- Induction (5 experiments)
- Transformers (3 experiments)
- Self-Induction (4 experiments)
- Safe Working with electricity (1 experiment)

Benefits

- Continuing experiments from the field of electricity to the topics electromagnetism and induction
- Instructional model engine with double-T armature, stator pole pieces and support surface for stator magnet
- Wiring diagram of the experiments can be completely illustrated
- Rugged magnetically adhesive puzzle blocks featuring contrasted screen-printed electric symbol on top
- The building blocks are easy to remove from experimental set-ups using the gripper rims
- Safe electric contact is guaranteed by the use of a unique puzzle block system with corrosion-free gold plated contacts
- 100-percent compatibility between teacher and student building blocks
- Complete equipment set in addition to Electricity/Electronics 1
- 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

Junction, module DB	09401-10	2
Wire crossing, insulated, module DB	09401-05	1
Universal holder,module DB	09403-00	1
Coil 400 turns, module DB	09472-01	2
Coil 1600 turns, module DB	09472-02	1
Contact spring w. armature,mod.DB	09473-00	1
Contact element,module DB	09473-01	1
Relay 6 V, module DB	09474-00	1
Motor 12 V, module DB	09475-01	1
Holder for U-magnet, module DB	09476-00	1
Magnet holder,d=18mm	09476-10	1
Pole shoes,1 pair (18x4x70)mm	09476-11	1
Coil f.galvanomtr.model,module DB	09477-00	1
Scale f.galvanomtr.model,mod. DB	09477-01	1
Clamp on holder	02164-00	1
Holder f.electr.motor,magn.board	07849-00	1
Motor model f. magnet board	07850-20	1
Magn.rotor f.generator model	07850-22	1
Iron core, U-shaped, laminated	07832-00	1
Iron core, I-shaped, laminated	07833-00	1
Tightening screw	07834-00	1
Circular trough	07835-00	1
Magnet, bar-shaped, d = 18 mm, l = 70mm	06318-00	1
Neon lamp 110 V AC, E10	07506-90	1
Insulating support, l = 235 mm	07924-00	1
Conductor swing	06412-00	1
Pulley,movable,dia.40mm,w.hook	03970-00	1
Rod for pulley	02263-00	1

Weight holder, 10 g	02204-01	1
Slotted weight, silver bronze, 10 g	02205-03	2
Slotted weight, silver bronze, 10 g	02205-03	2
Slotted weight, silver bronze, 50 g	02206-03	1
Fishing line, l. 5m	02089-01	1
Magn.rotor f.electr.motor model	07850-21	1

Necessary accessories

DEMO advanced Physics Electricity/Electronics Building Block System, basic set Electricity	15569-88
DEMO advanced Electricity necessary accessories	15570-01
PHYWE Demo Physics board with stand	02150-00

Recommended accessories

DEMO advanced Electromagnetism and induction, necessary accessories	15571-01
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 Elektrik/Elektronik auf der Tafel, DEMO advanced Physik (ET), (in german)	01005-01