

DEMO advanced Physics Electricity/Electronics Building Block System, Electronics

Article no: 15572-88



Function and Applications

Supplementary equipment set for the DEMO Set Electricity (15569-88). In combination with the set Electricity another 27 demonstration experiments can be performed:

- Capacitor (3 experiments)
- Diode (11 experiments)
- Transistor (13 experiments)

Benefits

- Continuing experiments from the field of electricity to the topic electronics
- Provides insight into semiconductor technology and deep going comprehension of the functional principle of capacitor, diode and transistor
- 100-percent compatibility between teacher and student building blocks
- 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
- 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
- Matched with international Curriculum: all topics are covered
- 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

Junction, module DB	09401-10	2
Wire crossing, insulated, module DB	09401-05	1
Wire crossing, connected, module DB	09401-06	1
Resistor 500 Ohm, module DB	09413-50	1
Resistor 1 kOhm, module DB	09414-10	1
Potentiometer 10 kOhm, module DB	09425-10	1
Capacitor 10 nF, module DB	09442-10	1
Capacitor 47 nF, module DB	09442-47	1
Capacitor(ELKO)0.047 mF, module DB	09445-47	1
Capacitor(ELKO),0.1 mF, module DB	09446-10	1
Capacitor(ELKO),0.47 mF, module DB	09446-47	1
Silicon diode 1N4007, module DB	09451-00	1
Z-diode ZF 4.7, module DB	09452-00	1
Photodiode, module DB	09453-00	1
Light emitt. diode, red, module DB	09454-00	1
Bridge rectifier, module DB	09455-00	1
Bridge rectifier w. LED, module DB	09455-01	1
Transistor BC337, module DB	09456-00	2
Transistor BC327, module DB	09457-00	1
Phototransistor, module DB	09458-00	1
Transmitter f. opt. fiber, mod. DB	09461-00	1
Optical fiber, 2m	09461-02	1
Solar cell (2.5x5)cm, module DB	09470-00	2
Coil 400 turns, module DB	09472-01	1
Coil 1600 turns, module DB	09472-02	1
Clamp on holder	02164-00	1
Iron core, U-shaped, laminated	07832-00	1
Iron core, I-shaped, laminated	07833-00	1

Tightening screw	07834-00	1
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Magnet, bar-shaped, d = 18 mm, l = 70mm	06318-00	1
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Necessary accessories

DEMO advanced Physics Electricity/Electronics Building Block System, basic set Electricity	15569-88
DEMO advanced Electricity necessary accessories	15570-01

DEMO advanced Electronics necessary accessories	15572-01
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PHYWE Demo Physics board with stand	02150-00
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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 Elektrik/Elektronik auf der Tafel, DEMO advanced Physik (ET), (in german)	01005-01