

DEMO advanced Physics Electromagnetism 1, digital

Article no: 25573-88D



Function and Applications

Equipment set for performing at least 7 demonstration experiments on the topics:

Electromagnetic ...

- Engines (3 experiments)
- Induction (1 experiments)
- Generators (3 experiments)

In 6 experiments, you can use the Cobra SMARTsense Voltage, Current and High Current sensors in combination with all mobile operating systems (iOS, Android, Windows) on any end device (smartphone, tablet, desktop PC). In conjunction with DEMO advanced Physics Electromagnetism 2 (25574-88), five more experiments can be performed digitally.

Benefits

- Didactically valuable build-up motor set
- Minimal preparation time
- 3 different rotors
- Shock-proof plastic housing with marked winding direction and safety sockets
- The ideal combination of classic experiments (practical competence) and digital data acquisition (media competence)
- Individual teaching structure possible: you can decide to choose the measuring instrument you want (classic or digital)
- Future-proof: Prepare the transition to the digital school today
- Perfectly matched to digital science lessons with smartphones, tablets and desktop PCs
- Easy teaching and efficient learning through the digital experiment descriptions enclosed as QR codes

Equipment and Technical Data

- Power supplies and measuring devices are required to carry out the listed experiments
- The equipment is stored in a robust aluminum case with a removable lid
- Foam insert: quick control for completeness and safe transport
- Cobra SMARTsense Voltage: Measuring range +/- 30 V, resolution 0.02 V, sampling rate 1000 Hz (10000 Hz via USB)
- Cobra SMARTsense Current: Measuring range +/- 1 A, resolution 0.5 mA, sampling rate 1000 Hz (10000 Hz via USB)
- Cobra SMARTsense High Current: Measuring range +/- 10 A, resolution 10 mA, sampling rate 1000 Hz (10000 Hz via USB)

Scope of delivery

DEMO advanced Physics Electromagnetism 1	25573-88	1
Cobra SMARTsense High Current - Sensor for measuring electric current ± 10 A (Bluetooth + USB)	12925-00	1
Cobra SMARTsense Voltage - Sensor for measuring electrical voltage ± 30 V (Bluetooth + USB)	12901-01	2
Cobra SMARTsense Current - Sensor for measuring electrical current ± 1 A (Bluetooth + USB)	12902-01	1

Necessary accessories

DEMO advanced Physics Electromagnetism 1, necessary accessories	25573-01
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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
USB quick charger with 8 USB ports	07934-99