

## DEMO advanced Physics Electromagnetism 2

Article no: 25574-88



### Function and Applications

Equipment set for performing at least 6 demonstration experiments on the topics:

- Induced voltage with electromagnets
- High-current transformer (melting nail)
- Eddy current damping in a magnetic field (Waltenhofen's pendulum)
- Rotary motion by eddy currents (AC meter)
- Thomson's ring experiment
- 1 Hz resonant circuit

In connection with the DEMO set for electromagnetism 1 (25573-88) at least 3 further experiments can be performed:

- Voltage transformer
- Current transformer
- High-voltage line

### Benefits

- Minimal preparation time
- Impressive demonstration experiments
- Shock-proof plastic housing with marked winding direction and safety sockets
- The equipment is stored in a robust aluminum case with a removable lid
- Foam insert: quick control for completeness and safe transport
- Easy teaching and efficient learning through the digital experiment descriptions enclosed as QR codes

## Equipment and Technical Data

- Power supplies and measuring devices as well as support material in individual cases are required to carry out the listed experiments.

## Scope of delivery

Clamping device for iron cores	06506-00	1
Coil, 10000 turns	06519-01	2
Coil, 600 turns	06514-01	2
Coil, 75 turns	06511-01	2
Coil, 6 turns	06510-00	1
Coil, 150 turns, short	06520-02	1
Iron core, U-shaped, laminated	06501-00	1
Iron core, I-shaped, laminated	06500-00	1
Pins for iron cores, U-shaped	06502-00	1
Iron core, I-shaped, laminated, L=300mm	06504-01	1
Base for iron cores	06508-00	1
Pole pieces for iron core, U-shaped	06493-00	1
Capacitor, 2 x 30 µF	06007-00	1
Iron core, cut C type	06503-00	1
Pendulum rod	06457-00	1
Pendulum plates, set of 5	06456-00	1
Aluminium disk	06564-00	1
Bolt with pin	02052-00	1
Short-circuit ring	06565-00	1
Short-circuit ring with slit	06565-01	1
Two-way switch, single pole	06005-00	1
Barrel base expert	02004-00	2
Insulating support, l = 235 mm	07924-00	2
Long distance line - model , 2 pieces	07305-01	1
Caution Label - high voltage	06543-01	1
Holder for caution plate	06549-01	1
Security bolster, 26,5 cm x 36,5 cm, aluminium	39180-01	1
Nails for high-current transformer, 50 pcs	06534-01	1

## Necessary accessories

DEMO advanced Physics Electromagnetism 2, necessary accessories 25574-01

## 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

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