

function generators



MB250-3F Function generator "compact", magnetic

Output signals: sine, triangle and square

Frequency range: 0.1 Hz ... 50 kHz, continuously variable

Output voltage: 4 V_{eff}/1 A_{eff} (4 watts at 4 ohms) from two 4-mm safety jacks

Input voltage: 12 V DC through hollow jack, supplied by mains transformer P3130-1P (12V/2A)

Dimensions: 84x84x39 mm



P3120-3F Function generator SE

Output signals: sine, triangle and square

Frequency range: 0.1 Hz ... 100 kHz,

adjusted by variable controls (coarse, fine)

Output voltage: 0...4 V_{eff}, max. 4 watts, from 4-mm safety jacks; suitable for powering sources of sound as well as motors (1 A max.) thanks to high power output; with short-circuit and backlash potential protection

Input voltage: 12 V AC, provided e.g. by mains transformer P3130-7A (12V AC) or student mains transformer P3130-3D

Green ABS plastic case

Dimensions: approx. 160x120x45 mm



P3130-1P Mains transformer

12V/2A

Input voltage: 100...230 V AC

Output voltage: 12 V DC/2 A



P3130-7A Fixed-voltage transformer 12V/1.67A AC

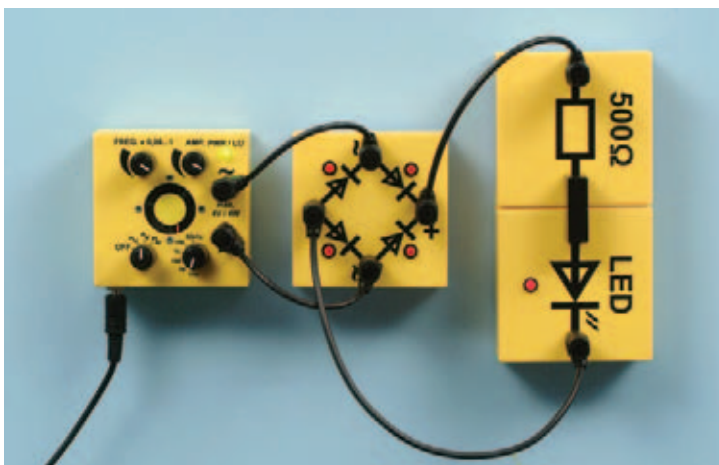
Mains transformer for powering lights in students' experiments as well as function generator SE P3120-3F

Output voltage: 12 V AC/20 W

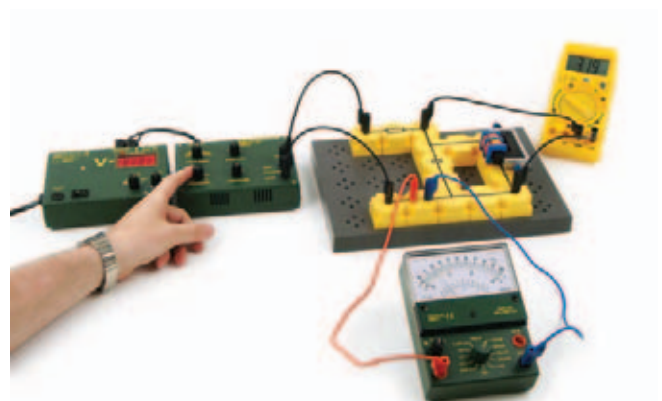
Connecting leads with two 4-mm safety plugs

Voltage source: 230 V AC/50...60 Hz

Dimensions: ca. 83x58x58 mm



Experiment: Bridge circuit with compact system - magnetic panel assembly compact system look up page 384



Experiment: Parallel resonance circuit (oscillation circuit)



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P3120-1G Function generator with digital display "inno"

When combined with 6 V/10 Ah "inno" rechargeable battery P3120-1B or "inno" fixed-voltage transformer P3120-1N using plug-in connectors, serves as a source of alternating current with variable frequency and voltage (up to 4 Veff; sine, triangle or square); it is particularly important to note this unit's usability with the "inno" 6 V/10 Ah rechargeable battery, since there is often no mains outlet nearby when doing experiments on the magnetic panel.

Technical data:

Waveforms: sine, triangle and square

Frequency: 0.1 Hz ... 100 kHz

Frequency display: 5-digit LED display,

Voltage supply: 6V DC, e.g. P3120-1N fixed voltage transformer "inno" or P3120-1B 6 V/10 Ah rechargeable battery "inno"

Case: plastic, green ABS

Dimensions: approx. 160x120x45 mm

Weight: approx. 530 g



Use: when used with the 6 V/10 Ah rechargeable battery or the "inno" fixed-voltage transformer, the "inno" function generator can be mounted on the L-shaped assembly platform P3120-4A (height: 240 mm), easily converting it into a table model.



P3160-3A Function generator with digital display "demo"

Frequency display on 6-digit, 7-segment LED display, 26 mm tall, with 1-Hz graduations;

Output signals: sine, triangle, square, sawtooth; amplitude and frequency able to be modulated

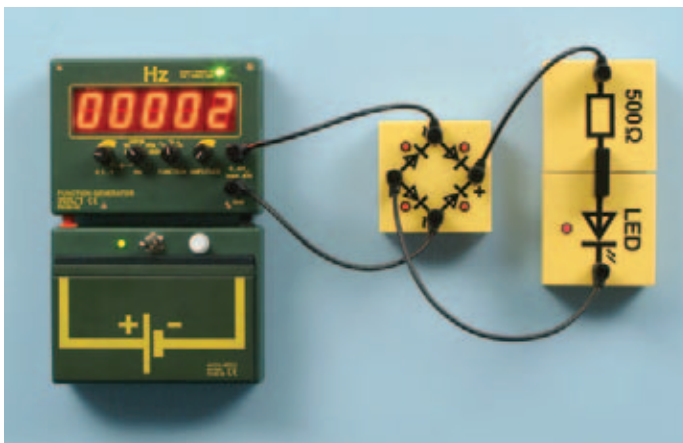
Frequency range: 0.1 Hz ... 100 kHz

Adjustable over six logarithmic scales with overlapping fine tuning
Output voltage: 0 ... 10 Veff, max. load 2 Aeff; permanent short-circuit and backlash potential protection; 4-mm safety output jacks

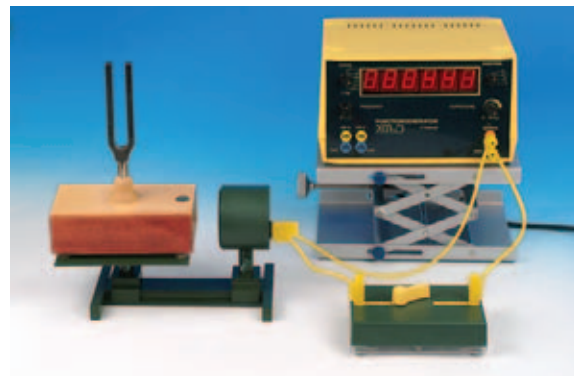
Plastic case: yellow ABS with two recessed handles

Voltage source: 230 V AC/50...60 Hz

Dimensions: approx. 260x150x210 mm; weight: approx. 3.9 kg



Experiment: Bridge circuit with "demo" system - magnetic panel assembly



Experiment: resonance - tuning fork excitation by eigenfrequency