

Ultrasonic Continuous Wave Generator

Order code: **5401.1002576**



Cena bez DPH

5.070,00 Eur

Price with VAT

6.134,70 Eur

Parameters

Types of waves

Ultrazvuk

Quantitative unit

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Ultrasonic continuous wave generator for producing continuous, high-powered ultrasonic waves in a wide frequency range of up to 20 MHz. Includes a multi-frequency probe with waterproof cast sound transmitting surface. The transmitter frequency can be adjusted in digital increments of 1 Hz and is indicated on a display. The acoustic power can also be adjusted by regulating the transmitter voltage of the ultrasonic converter and can be turned on and off separately. The transmitting mode is shown by an indicator lamp. The transmitter voltage is shown on an LCD display. The transmitter output supplies a sinusoidal signal with a maximum amplitude of 40 V. The transmitter frequency can also be output as a TTL signal from a monitor terminal. There is also a suitable voltage output for controlling the red and green laser diodes in the Debye-Sears experiment. This, too, can be turned on and off separately and has its own indicator light. The apparatus automatically detects any laser probe that is connected and adjusts the control voltage accordingly.

- **Generator frequency:** ≤ 20 MHz
- **Multi-frequency probe:** 1 - 13 MHz
- **Frequency increment:** 1 Hz
- **Output signal:** Continuously adjustable sinusoid of 5 - 60 Vpp, separately switchable
- **Monitor signal:** TTL 0-5 V, square
- **Laser output:** 3 V DC, max. 300 mW, separately selectable with indicator light
- **Connections:** 5,5 mm laser diode, BNC ultrasonic probe, 2x BNC frequency generator, and USB
- **Display:** Voltage / frequency
- **Power consumption:** approx. 100 VA
- **Mains voltage:** 90 - 230 V, 50/60 Hz
- **Dimensions:** approx. 25,6 × 18,5 × 16,0 cm