

OPCAV ULTRASONIC CAVITATION METER

<http://www.optel.eu>

OPCAV is a portable ultrasonic cavitation meter. Along with the measuring probe creates the ideal tool for the following applications:

- Cavitation level measurement in ultrasound washers (400kHz-1.2MHz);
- Sonication signal level measurement (20-50kHz)



Features

- Portable cavitation meter, battery powered, measuring probe included;
- Measuring method: measuring of the intensity of the acoustic emission arising as a result of the cavitation implosion;
- Simultaneous measurement of two channels - cavitation signal (HF) and the sonication signal (LF);
- Digital gain control of both of the channels;
- The ability to read the measurement results via a USB interface (UART);
- Calibration data download to non-volatile memory;
- Display 2x12 characters – two channels results are displayed at once;
- Charging battery by USB connector (USB cabel 2.0 A-B type);
- 3.7V rechargeable Li-ion battery;

Technical Data

Range of HF frequency	400kHz - 1200kHz
Range of LF frequency	20kHz - 50kHz
Input Voltage range	1mV - 300mV
ADC resolution	12bit
Measuring probe impedance	1k Ω -3k Ω (full range)
Measurement representation	By percent, 1% resolution
Gain range	23dB-61dB
Dimenstions	147x88x26mm
Weight	193g
Operating time	min. 20h
Power supply	5V, max. 420mA, USB