

# hygea® Ultrasonic Activity Meter



Ultrawave's hygea® Ultrasonic Activity Meter provides a fast, effective and simple method of measuring the ultrasonic activity generated in Ultrawave's ultrasonic baths.

By measuring the frequency and power level generated within the cleaning fluid, the hygea® Ultrasonic Activity Meter provides assurances that the bath is performing at the optimum level.

Ultrawave's hygea® Ultrasonic Activity Meter is an easy-to-use alternative to the traditional foil ablation test.

## Why measure

The need to confirm the performance of all processing equipment in healthcare and industrial manufacturing environments is all important.

HTM01-05 recommends that a measurement of ultrasonic activity in dental ultrasonic baths is taken on a regular basis. Some health trusts and organisations now recognize the hygea® Ultrasonic Activity Meter as an alternative to the foil ablation test and have approved its use for measuring the bath's performance.

The hygea® Ultrasonic Activity Meter is also used in many manufacturing and processing industries where Ultrawave ultrasonic systems are a key part of the manufacturing process.

## How it works

The hygea® Ultrasonic Activity Meter is constructed from a stainless-steel probe, fitted with a specially designed ultrasonic receiver. The probe is connected to a hand-held meter with two LED bar graphs.

When the probe is inserted into the cleaning fluid and the button on the meter is pressed, the LED bar graph displays a measurement for the frequency and power generated within the cleaning fluid.

This indicates and measures the level of ultrasonic activity and ensures that the ultrasonic cleaner is working at optimum efficiency.

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## Performance

Each ultrasonic bath may not run at the exact same frequency; therefore, the hygea® Ultrasonic Activity Meter will not necessarily give the same readings in two baths that are performing equally well.

The hygea® Ultrasonic Activity Meter should be used to compare a bath over a period of time rather than to compare two different baths alongside each other. Should the measurements recorded in an individual bath change significantly over a period of time, it is recommended that you contact Ultrawave for information and advice.

The hygea® Ultrasonic Activity Meter has been optimised for use in Ultrawave ultrasonic cleaning systems.

## Calibration

The hygea® Ultrasonic Activity Meter requires annual calibration to ensure that it is still providing accurate measurements. Calibration of the hygea® Ultrasonic Activity Meter needs to occur at Ultrawave under strict calibration conditions.

Please note that there is no recognised international standard unit (SI unit) of ultrasonic activity, therefore your hygea® Ultrasonic Activity Meter calibration is not traceable to national standards.

Specifications	
Probe Assembly in Stainless Steel	Ø15 × 244mm long
Handle in ABS Plastic	105mm long
Instrument Case in ABS Plastic	130 × 65 × 25mm
Weight (probe and cable)	350 grams
Weight (instrument including battery)	200 grams
Indicator 1: Frequency	5-50 kHz
Indicator 2: Power	10-100%
Battery	PP3 - 9V
Cable Connector	BNC 2P
Warranty	36 months
Calibration Period	12 months

Specifications are subject to change for continual improvements