

PROBE SONICATOR

ALS-INS032



DESCRIPTION

The ALS-INS032 Probe Sonicator is an advanced scientific instrument designed for precise control and high-performance sonication. Featuring a PID microprocessor for enhanced accuracy and a 5-inch TFT touchscreen, it allows intuitive operation of ultrasonic power, time, and gap adjustments with accuracy down to 0.1 seconds. This model combines cutting-edge technology with user-friendly design, empowering researchers with detailed control over their experiments and a comprehensive display of essential parameters.

FEATURES

- **Large Display & Intuitive Interface:** Equipped with a 5-inch TFT touchscreen and PID microprocessor for accurate control.
- **Ultrasonic Power Control:** Power can be set in 1% increments, offering precise adjustments from 1- 99%.
- **Comprehensive Display Functions:** Displays sample temperature, frequency, computerized tracking, and automatic trouble warnings on a large LCD screen.
- **Flexible Operation Modes:** Includes pulse, continuous, and rest functions to suit various experimental needs.
- **Accurate Timing Controls:** Ultrasonic time, gap time, and total time can be set to 0.1-second precision.
- **Advanced Safety Features:** Features temperature alarms adjustable from 0.1 to 99°C to prevent sample overheating and alarms for time, temperature, and overload

TECHNICAL SPECIFICATION

Model	ALS-INS032PS
Frequency	20-25 KHz , Automatic tracking
Display	LCD
Power	650W
Power Range	1-99%
Display function	Temperature, Power, Time etc.
Timer (Selectable)	Yes
Overload Protection	Yes
User password Protection	Available
Input method	Touch Screen control
Std. Tip (Φ)	6 mm (1/4")
Tip options (Φ)	2,3,6,8,10,12 mm
Processing Volume	0.5-500 ml
Duty Ratio	0.1-99.9%
Date memory	20 groups
Temperature Alarm	0.1-99°C (Prevent sample overheating)
Alarm	Time, temperature, overload
Power Supply	220V 50Hz/60Hz
Dimensions (LxWxH) (mm)	490x370x280
Weight	10kg + 5kg (Sound Proof Enclosure)

**TITANIUM ALLOY TIPS/PROBE/HORN
SIZE REFERENCE VALUE**

Probe No.	Tip diameter	Processing capacity	Power ratio	Amplitude (microns)
PPS-2	Ø2	0.5-5 ml	1-40%	320µm
PPS-3	Ø3	3-10 ml	1-50%	380µm
PPS-6	Ø6	10-100 ml	1-70%	200µm
PPS-8	Ø8	20-200 ml	1-80%	160µm
PPS-10	Ø10	30-300 ml	1-90%	140µm
PPS-12	Ø12	50-500 ml	20-95%	120µm