

PROBE SONICATOR ALS-INS033



DESCRIPTION

The ALS-INS033 Probe Sonicator is an advanced scientific instrument designed for precise control and high-performance sonication. Featuring a PID microprocessor for enhanced accuracy and a 7-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 7-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-INS033PS
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)	2,3,6,8,10,12,15,18,20 AND 25 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**

Tip Model	Tip diameter	Frequency (KHZ)	Power Range	Crushing Capacity
Φ2	1/12"	20-25KHz	120-250W	0.5-5ml
Φ3	1/8"	20-25KHz	30-400W	3-10ml
Φ6	1/4"	20-25KHz	60-650W	10-100ml
Φ10	5/12"	20-25KHz/19.5-20.5KHz	100-950W	100-200ml
Φ12	1/2"	20-25KHz	100-950W	100-200ml
Φ15	5/8"	20-25KHz/19.5-20.5KHz	200-950W	200-600ml
Φ18	3/4"	20-25KHz	200-950W	200-500ml
Φ20	3/4"	19.5-20.5KHz	400-1200W	500-1000ml
Φ25	1"	19.5-20.5KHz	800-1800W	500-1200ml