



## Ultrasonic Atomization Module – MS-01 Technical Datasheet

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### 1. General Description

The MS-01 ultrasonic atomization module is designed for water-based mist generation using high-frequency ultrasonic vibration (1.7 MHz). It is suitable for integration into humidification systems, HVAC equipment, and OEM misting applications.

### 2. Technical Specifications

Working Voltage: DC 24V (22–26V)

Working Current: 0.8 – 1.2 A

Frequency: 1.7 MHz

Continuous Output: 0.5 – 0.7 L/H

Droplet Size: 1 – 10  $\mu\text{m}$

Working Water Temperature: 5 – 45°C

Recommended pH Range: 5 – 8

Optimum Water Level: 30 – 35 mm

Protection Water Level: 10 – 16 mm

Overheat Protection: 55 – 65°C

Lifetime (Clean Water): 3500 – 5000 hours

### 3. Mechanical Specifications

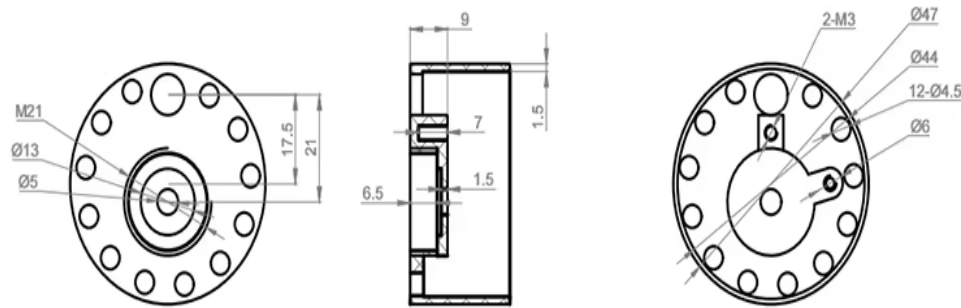
Housing Material: polished 304 stainless steel housing

Nickel-chrome plated brass compression ring

Atomizing Disc Diameter:  $\varnothing 20$  mm

Dimensions: 46 × 35 mm

Cable Length: 1300 mm



#### 4. Power Supply

Recommended to use AC220V-DC24V / 24W power supply.

#### 5. Features

- High-frequency ultrasonic atomization (1.7 MHz)
- Compact design for OEM integration
- Built-in over-temperature protection
- Water level protection (dry-run prevention)
- Stable constant current operation
- Stainless steel housing for durability

#### 6. Application Areas

- Humidification systems
- HVAC integration
- Industrial misting
- Agricultural / greenhouse use
- OEM equipment integration

#### 7. Important Notes

- Designed primarily for clean water operation

- Recommended pH range: 5–8
- For special liquids (e.g. disinfectants, HOCl solutions), compatibility and lifetime should be verified through testing
- Service life may vary depending on water quality and operating conditions

## **8. Testing & Evaluation**

Samples are available for testing and evaluation upon request.