AUDIOWELL SENSOR TECHNOLOGY

UM0077-001

SPECIFICATIONS

Model:FB01T02-UM0077-001Z

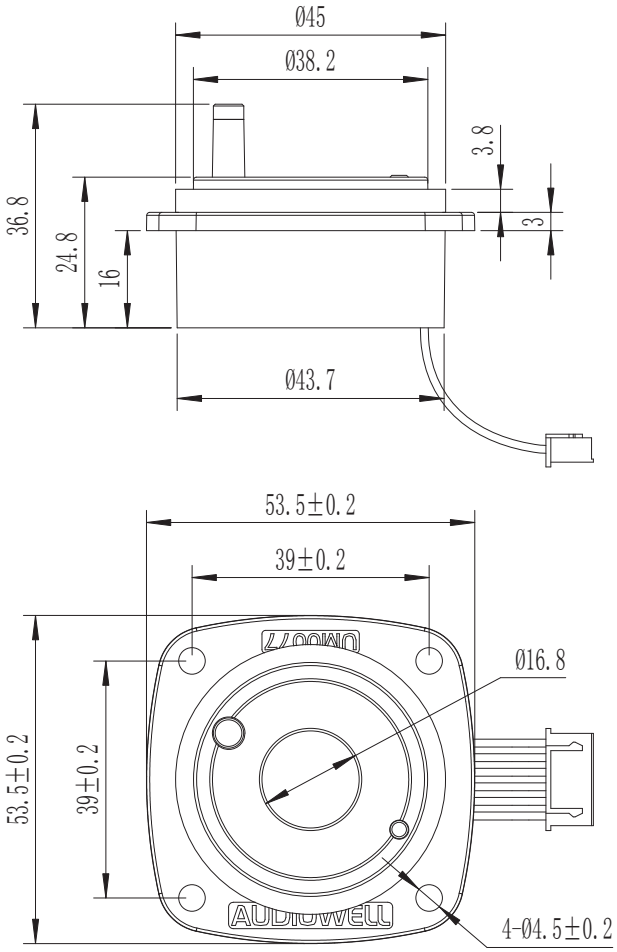
Electrical specification

Power Supply	DC: 24±0.3V	Max output current	⩾1A
Transducer Frequency	1.7±0.05MHz	Operating current (Max)	0.77±0.07A
Optimum water level	35 mm	Operating water temperature	35±20°C
Mist volume	250-350mL/h	Service life	⩾8000H

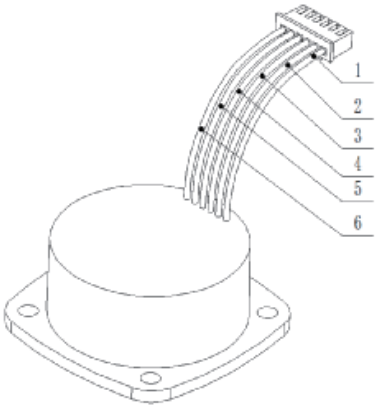
Components

Components	Model & Specification(mm)	Quantity (PCS)	Remarks
UM0077-001	FB01T02-UM0077-001Z	1	Atomizing module
UM0077-07X	ϕ44.4*3.8	1	Silicon rubber

Appearance and dimensions，Unit (mm)



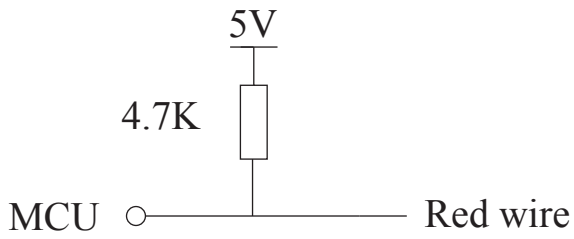
Connection Diagram



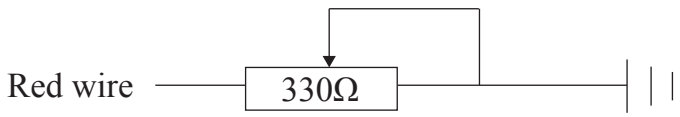
Lead wire number	Lead wire color	Pin Function
1	Green	DC24V positive
2	Yellow	Ground
3	Orange	Water shortage indicator (normal: 5V; no water: 0V)
4	Red	Mist volume control (highest when floating)
5	Brown	Fan control
6	Black	Water shortage baseline learning: it learns the baseline of water shortage when low level is detected at power-on. (At this point the probe should be suspended and not in touch with anything.)

Orange wire interior circuit

Red wire interior circuit



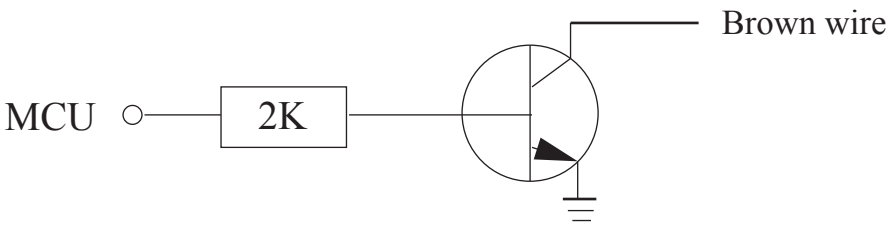
① If a potentiometer is used to control the atomization volume, refer to the wiring diagram below for the external circuit:



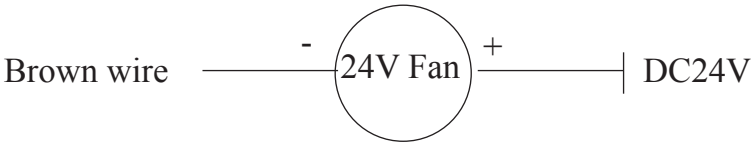
4.7K Potentiometer

② The function of controlling the atomization volume by PWM signal can be customized. The PWM signal frequency is 100Hz. A higher duty cycle of the high level means a larger atomization volume. The maximum atomization volume can be reached when it is left floating or directly connected to 5V. Atomization is turned off when it's at low level continuously.

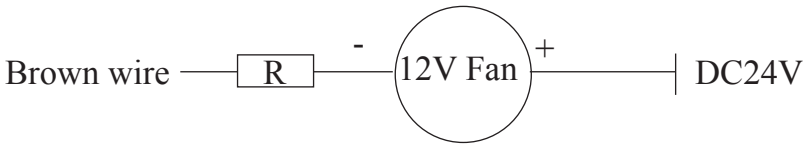
Brown wire interior circuit



①Connect with the 24V fan:

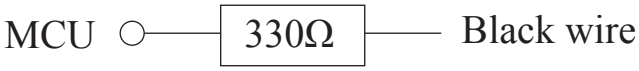


②Connect with the 12V fan:



Resistance value: R=12/(Fan current)

Black wire interior circuit



Operating Instructions

(1) Power on to enter the standby state. Atomization starts when there is water.

(2) When atomization is turned on, the fan is simultaneously turned on. When atomization is turned off, the fan is simultaneously turned off.

(3) Water shortage protection: when the water level is 2mm below the metal probe head, atomization will be turned off; when the water level is 2mm above the metal probe head, atomization will be turned on again;

(4) The input and output characteristics of Wire NO.3 (orange), NO.4 (red), and NO.6 (black) can be changed according to requirements.

(5) This atomizing module cannot operate in parallel with each other in a common water tank.

Precautions:

(1) Clean the transducer periodically to avoid incrustation

(2) The fragile atomizer could be damaged by strong vibration or impact. So please install carefully.

(3) The operating temperature is 3℃-50℃. It is recommended to operate at over 25℃.