

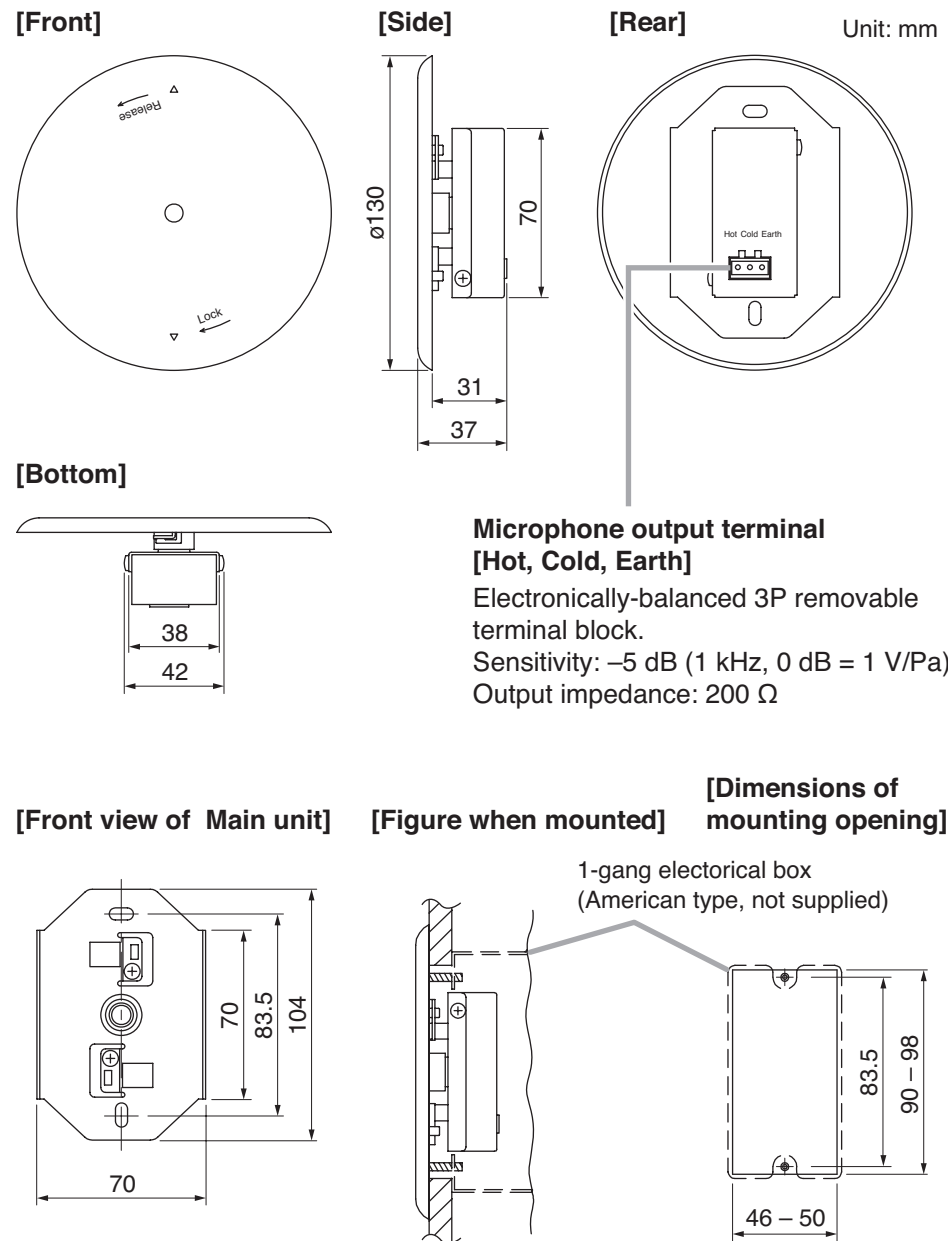
CEILING MOUNT MICROPHONE AN-9001

Thank you for purchasing TOA's Ceiling Mount Microphone. Please carefully follow the instructions in this manual to ensure long, trouble-free use of your equipment.

1. GENERAL DESCRIPTION

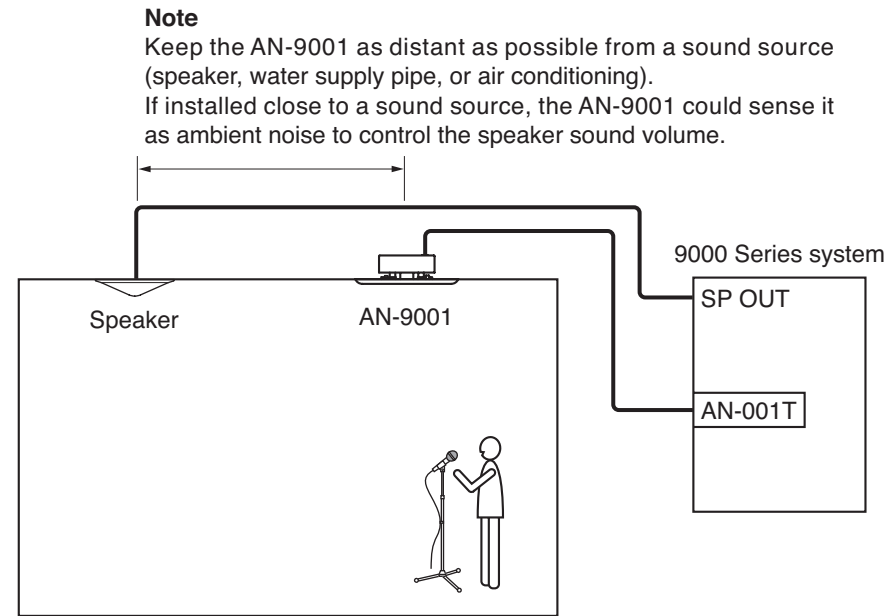
The AN-9001 is an electret condenser microphone designed for ambient noise detection. It is used in conjunction with the AN-001T Ambient Noise Sensor Input module in the 9000 Series system. It can be mounted in a 1-gang electrical box (American type) in the ceiling or wall.

2. DIMENSIONAL DIAGRAM



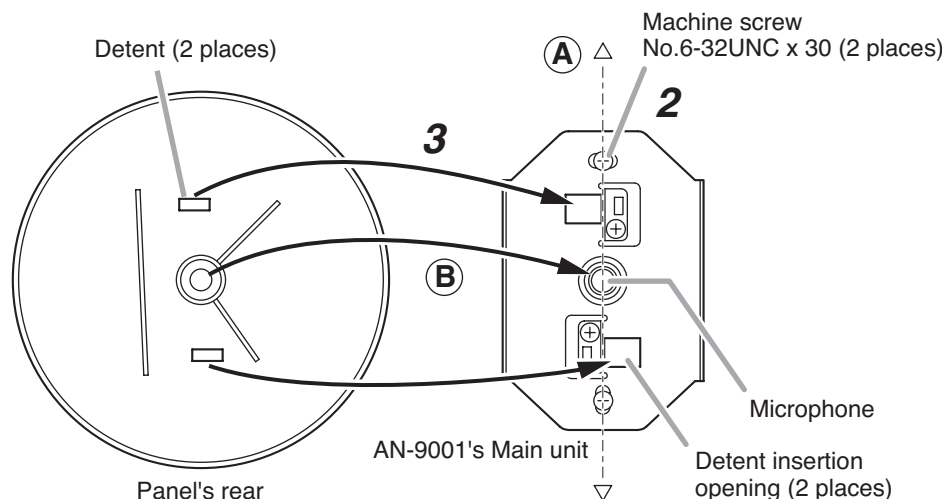
3. CONNECTION

The AN-001T and AN-9001 are connected as illustrated below and used to control the speaker sound volume in a room or such closed space.



4. INSTALLATION

- Step 1.** Install a 1-gang electrical box in a wall or ceiling.
- Step 2.** Mount the AN-9001's Main unit to the installed electrical box. Use the 2 screws (No.6-32UNC x 30) supplied with the AN-9001.
- Note**
The AN-9001 comes with 2 types of machine screws: No.6-32UNC x 30 (unified threads) and M4 x 30 (metric threads). Be sure to use correct ones.
- Step 3.** Let both detents on the panel's rear into the detent insertion openings of the Main unit.
- Tips**
For detent insertion, refer to the following points:
(A) Align 2 triangular marks on the panel with the extended line connecting between Main unit's mounting screws.
(B) Align the panel's center hole with the Main unit's microphone.
- Step 4.** Rotate the panel clockwise. The panel locks into place by rotating it about 20° in the "Lock" direction.



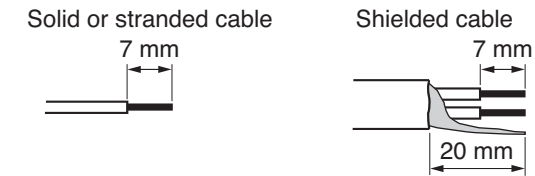
5. REMOVABLE TERMINAL PLUG CONNECTION

Be sure to use the supplied removable terminal plugs for connections to the removable terminal blocks.

Notes

- Be sure to use shielded cables for audio signal lines.
- Avoid soldering stranded or shielded cable, as contact resistance may increase when the cable is tightened and the solder is crushed, possibly resulting in an excessive rise in joint temperatures.

[Cable end treatment]

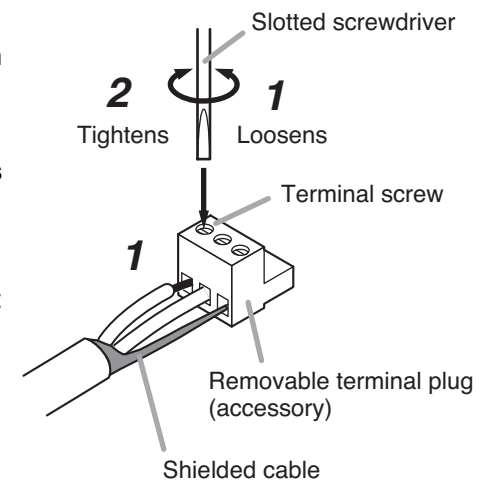
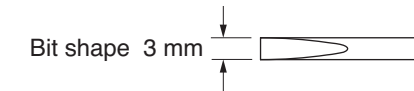


[Connector connection]

- Step 1.** Loosen the terminal screw, then insert the cable.
- Step 2.** Retighten the terminal screw. (Pull on the cable to ensure it is securely connected.)

Tip

Recommended slotted screwdriver type: Screwdriver with 3 mm blade width



6. SPECIFICATIONS

Type	Electret condenser microphone
Phantom Power	14 - 26 V DC
Current Consumption	7 mA (at 24 V DC)
Directivity	Omnidirectional (hemispherical)
Impedance	200 Ω
Rated Sensitivity	-5 dB (1 kHz, 0 dB = 1 V/Pa)
Frequency Response	100 - 10,000 Hz
Output Terminal	Removable terminal block (3 pins)
Operating Temperature	-10 to +40°C
Finish	Panel: ABS resin, white Frame, Case: Surface-treated steel plate
Dimensions	ø130 x 37 (d) mm
Weight	170 g

Note: The design and specifications are subject to change without notice for improvement.

• Accessories

- Removable terminal plug (3 pins) 1
- Machine screw No. 6-32 UNC x 30 2
- Machine screw M4 x 30 2

Traceability Information for Europe (EMC directive 2004/108/EC)	
Manufacturer: TOA Corporation 7-2-1, Minatojima Nakamachi, Chuo-ku, Kobe, Hyogo, Japan	Authorized representative: TOA Electronics Europe GmbH Suederstrasse 282, 20537 Hamburg, Germany