AM-DX1

Desktop Microphone for Base Station

(With Ceramic Microphone Element)

User's Manual

Features:

- **High Sensitivity Ceramic Microphone Element equipped.**
  Microphone element is the ceramic type which has excellent durability and high sensitive and wide dynamic range. The peak level of frequency characteristics is kept at around 2KHz for better understanding, especially for DX communications. It is usable widely from HF to V/UHF bands.

- **Anti-Vibration Design**
  The mechanical noise coming from microphon body was reduced. (compared with other Adoni desktop microphones.)

- **Available for use with Microphone Conversi Cable** provided with power supply line. The pov supply can be done by dry cells (AA x 2 pcs.) transceiver (Mic. Connector – DC5V~9V, minim 20mA)

Specifications:

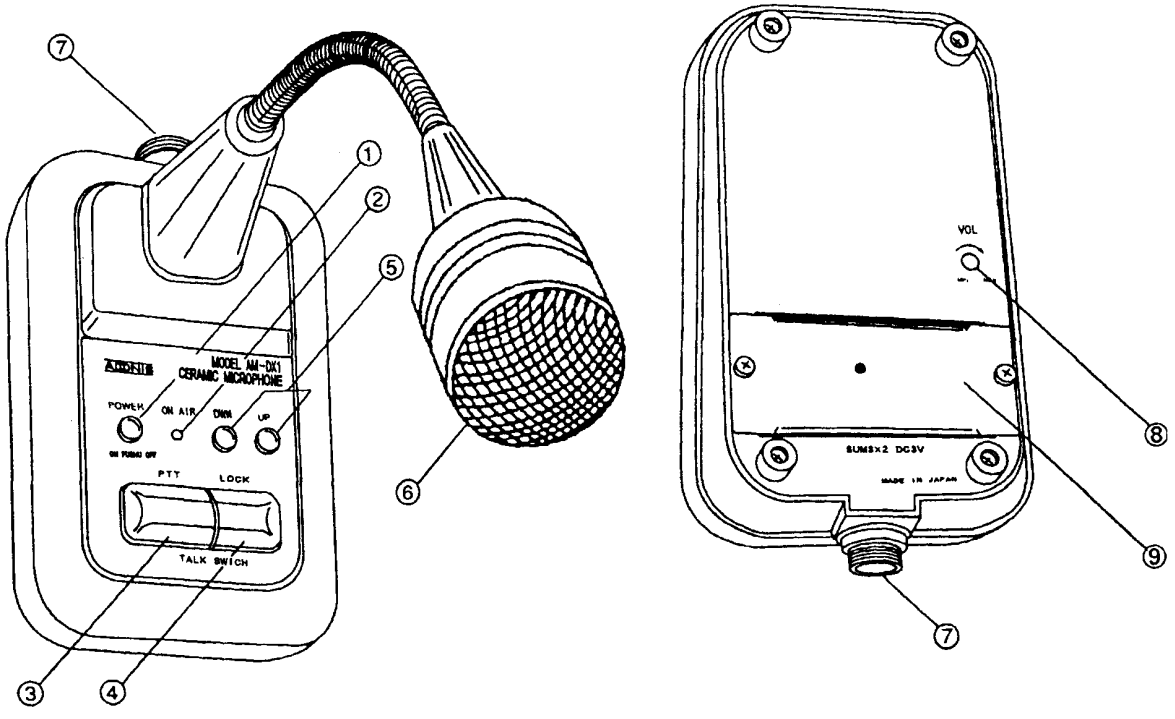
Microphone unit	: Ceramic type
Microphone Characteristics	: Non-directional
Frequency Characteristics	: 200Hz~4KHz
Microphone Sensitivity	: -38dB±3dB(typ) 0dB=1V/Pa RL=1kΩ 1KHz
Output Voltage	: Variable with Semi-fixed volume
Matching Output Impedance	: 500Ω～100KΩ
Power source	: dry cell(3V AA3x2), transceiver DC5V~9V
Current Consumption	: at RX: approx 1.5mA TX: approx. 3mA
Operating Temperature Range	: 0～50℃
Dimensions (without extrusions)	: 100(w) x 155(D) x 310(H)mm
Weight	: about 600g

Thank you very much for your purchase of "ADONIS" Desktop Microphone Model AM-DX1. Please read this user's manual carefully to enjoy this unit satisfactorily and for a long time.

[WARNING]

- ! Connect to the transceiver with "Adonis" microphone conversion cable suited to your transceiver. When using other manufacturers' cables, it may cause the trouble on operating the microphone and transceiver and please be sure to use "Adonis" microphone cable.
- ! Please do not use the battery not specified. Do not use the batteries mixed with new one and used one.
- ! Do not spill the water or liquid into the microphone. When a liquid spilt into microphone, put off the power switch of microphone and remove the batteries and microphone cable from the microphone. If you use the microphone without any actions mentioned above, it may be cause of fire, trouble and electric shock.
- ! During in use of the microphone, if you find the smoke or abnormal heat, stop the use of microphone immediately and send it to the distributor or store so they can repair it or send it to us.
- ! Regarding the battery, we can recommend to use "Alkaline" type batteries. When you do not use the microphone more than 1 month, please be careful of battery condition as they may have liquid leakage to outside which sometime cause the trouble to the microphone.
- ! After "QSO", please be sure to turn the power off.
- ! Do not put the microphone in higher temperature area or under direct sunlight.
- ! This unit is completed accurately. Do not add the impact on to microphone by dropping down to the floor. Do not make unnecessary modification inside.

Controls: (Fig.1)



① **Power Switch**

Press it once to turn the power "ON" and LED TX indicator② blinks. Press the power switch again to turn the power "OFF" and TX Indicator② goes out.

② **TX Indicator Lamp (LED)**

Press the Power Switch①, it blinks to indicate receiving mode. When in transmitting mode, it lights up continuously.

③ **PTT Switch**

Use it for short time QSO. While pressing it, the TX LED Indicator② lights up and the mode is in transmitting. When releasing it, the microphone will return to receiving mode. Also use it to release the "LOCK" (continuous TX mode) condition.

④ **Lock Switch**

Use it for long time QSO. Press it and the LED TX Indicator② lights up continuously. The transmitting mode will continue until pressing the PTT switch③.

⑤ **Up/Down Switch (UP/DWN)**

The same function as the UP/DOWN switch of transceiver. For details, please read the instruction book of transceiver.

⑥ **Microphone**

AM-DX1 uses the ceramic microphone element for better sound quality to be understood clearly. Use the microphone while keeping the distance about 10cm between the microphone and your mouth.

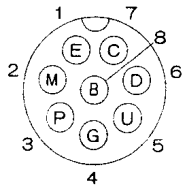
⑦ **Mic. Output Connector (8P ADONIS type)**

Connect with correct conversion cable to the transceiver. (The cable is optionally available.) The microphone cable has the direction for connecting. Please note.

Microphone Output Connector

[8P ADONIS Arrangement](Fig.2)

① E: Earth(For mic. signal)
② M: Mic. Signal
③ P: PTT(Press to talk)
④ G: Earth(PTT)
⑤ U: Up
⑥ D: Down
⑦ C: U/D Common
⑧ B: DC Power Supply(+)

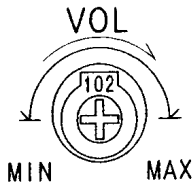


(view from terminal)

⑧ **Output Adjusting Volume** (Fig.3)

Adjusting Volume for output voltage. It is factory-preset at the optimum level. If the modulation level is not acceptable to you, adjust the volume to the optimum level as follows. The output level is increased by rotating the volume⑧ clockwise. Adjust it with "minus" screwdriver (width max.3mm) carefully and slowly under monitoring by local station. (The rotation angle from center is 90° for both left and right. Fig.3 shows the center position.)

Output Adjusting Volume (Fig.3)



⑨ **Battery Cover**

When replacing the batteries, remove the 2 set screws of the bottom plate and set the 2 pieces of "AA"(UM3) batteries correctly. (The batteries are not provided with this microphone.)

[Optional Accessory]

By using the external power adaptor model PS-3, you can operate by using external power source of DC13.8V.

Cautions:

- We have no any responsibility for the trouble caused by the use of the microphone conversion cable manufactured by other company.
- Be careful about high SWR of antenna and incomplete earth setting since it may cause the trouble of RF feedback noise depending on coaxial cable layout.
- When using the microphone in light place, it may be difficult to see the lighting up TX Indicator Lamp (LED).
- The design and specifications are subject to change for improvement without advance notice.