

# PISTONPHONE NC-72A



Standard sound source  
that generates a constant sound pressure of  
114 dB at 250 Hz.

- Allows calibration with accuracy of  $\pm 0.15$  dB.
- Usable in wide temperature and humidity range.
- Usable as a standard sound source in laboratories  
or as a calibration sound source for sound level meters on site.

# PISTONPHONE NC-72A

## How to use

Carefully insert the microphone all the way into the coupler. Then simply turn the power on to apply a constant sound pressure level to the diaphragm of the microphone. The 1/2 and 1/4 inch microphones can be used after the supplied adaptor is installed in the coupler.



Usage example (NL series)

## Relations with atmospheric pressure

NC-72A is designed to generate sound that has a sound pressure level of 114 dB(nominal) at 101.325 kPa of atmospheric pressure. Depending on the barometric pressure, the unit may need compensation. For this purpose, a barometer is supplied with the unit.



Carrying case (supplied)

## Operation principle

Two pistons are driven symmetrically through a cam that is directly connected to the shaft of the accurate motor (Figure 1 and 2). The shape of the cam is uniquely designed to enable the pistons to perform accurate sign wave movement. Pistons are made of the special resin material with low friction. This enables both pistons to maintain their initial performance levels for about 2 000 hours without grease.

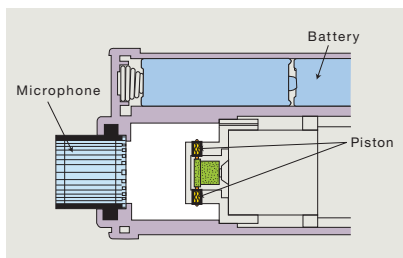


Figure 1  
(component drawing, side view)

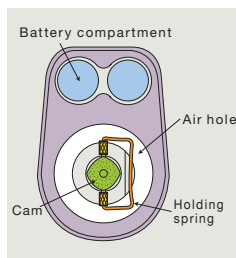


Figure 2  
(component drawing, front view)

## Specifications

Applicable standards	IEC 60942:2003(JIS C 1515:2004) Class LS/C IEC 60942:2003(JIS C 1515:2004) Class 1/C (When using the supplied barometer)
Suitable microphones	1,1/2, or 1/4 inch microphones
Nominal sound pressure level	114 dB Specified sound pressure level tolerance limit: ± 0.15 dB(101.325 kPa)
Frequency	250 Hz ± 1 %
Total harmonic distortion factor	2.5 % or less
Ambient condition	- 10 to + 55 °C (with alkaline batteries), 10 to 90 % RH (without dew condensation)
Batteries	IEC LR6 (size AA) battery x 6, approx. 13 hours(continuous use) by alkaline
Dimensions · weight	Approx. 60(H)x170(W)x40(D)mm, Approx. 740 g(including batteries)
Supplied accessories	Barometer x 1 1/2 inch adapter x 1 1/4 inch adapter x 1 IEC LR6 (size AA) battery(alkaline) x 6 Carrying case x 1

\* Specifications subject to change without notice.



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<http://www.rion.co.jp/english/>

3-20-41, Higashimotomachi, Kokubunji, Tokyo 185-8533, Japan  
Tel: +81-42-359-7888 Fax: +81-42-359-7442