

# LEAK TESTER *AD-1690*

*Ideal for screening out damaged micropipettes!*



Most pipette failures happen due to damaged seals, o-rings, pistons or tip-holders compromising the airtightness of the pipettes. With the AD-1690 leak tester, you can instantly determine whether a pipette needs repairing or not.



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A&D Company, Limited  
<http://www.aandd.jp>



# LEAK TESTER

# AD-1690

*The AD-1690 is designed to test for leakage in small pumps, containers, piping (capacity up to approx. 50 ml), and especially micropipettes.*

## Quick Testing

Completes leak testing in less than 5 seconds.

## Leak Detection by Depressurization\*

Changes pressure by evacuating air instead of injecting it, so no dust enters the measured object.

## Replaceable Air Filter

Protects the leak tester from dust when it intakes air and is easily replaced.

## RS-232C Interface

Outputs data to a PC or an A&D peripheral device such as the AD-8121B or AD-1688.

## Three Types of Attachments

Covers three different tip sizes of pipettes, with capacities ranging from 2  $\mu$ L to 10,000  $\mu$ L.

\* A pressurization method is available upon request.



Air Filter Unit



Three Types of Attachments

## Specifications

Depressurization value	-20 kPa $\pm$ 20% (Fixed)
Pressure tolerance inside instrument	+0.2 kPa / 10 seconds
Leak test conditions	Pressure tolerance setting: +0.1~+20 kPa (Unit: 0.1 kPa) Monitoring time: From 1 second (Unit: 0.5 seconds)
Pump operation time	Up to 6 seconds
Dimensions	(W) 231 mm $\times$ (D) 126 mm $\times$ (H) 78 mm
Weight of the main unit	Approx. 570 g

## Options

- AD-1690-01** Replacement tube set  
(Adaptor  $\times$  1, attachment  $\times$  3)
- AD-1690-02** Replacement filter set  
(Filter unit  $\times$  1, filter element  $\times$  10)
- AD-1682** Rechargeable battery
- AD-1688** Weighing data logger\*
- \* Leak test data can also be stored.

## Pipette Accuracy Testers (sold separately)

Our pipette accuracy testers are useful for finer checking of pipette accuracy and repeatability. Even when a pipette has no leakage, it can become inaccurate overtime.

Along with the AD-1690, pipette accuracy testers provide a simple and cost-effective means to maintain the accuracies of your pipettes.

(Three models are selectable depending on the required precision of your testing. The flagship model, the AD-4212B-PT, can test micropipettes with a capacity of 2  $\mu$ L.)

AD-4212B-PT



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