

# Digital Orifice Flow Meter, for HV Air Samplers, Model OFD-1

## Calibration at the measurement!

## Easy & Quick!



Flow rate of the high volume (HV) air sampler is calibrated with a root meter.

The root meter is a setting type, accordingly, flow rate calibration is difficult at the measurement site.

The digital orifice flow meter Model OFD-1 is an on-site use flow rate calibrator of the measurement site for HV air sampler HV-500F/-500R/-700F/-700R/-1000F/-1000R series.

This is a sensor type instead of the conventional glass U shape pipe. An atmospheric pressure gauge and a thermometer are integrated in a device, so that there is no need to convert a measuring value at a customer side. Numerical value on a display is automatically used for calibration with HV-R series becomes possible at measuring sites.

## Features

- Built-in temperature sensor and atmospheric pressure sensor, make it possible to perform flow rate calibration automatically, and display a digital value.
- HV sampler can be automatically calibrated connecting through a USB cable to OFD-1.
- Preventing the wrong settings, the orifice board has an automatic recognition function.
- The traceability of the flow rate is available.
- An option adapter is needed to connect OFD-1 with HV air sampler.  
(Please purchase the square shape adapter for an HV-1000F/-1000R/-700F/-700R users, and the round shape adapter for HV-500F/-500R users.  
When you have an old-model orifice flow meter set, simply use the accessory adapter for Model OFD-1.)

## Connection Example

HV-1000R Connection Example



HV-500R Connection Example



# Specifications

Model	OFD-1
Configurable flow rate range	Flow rate accuracy: $\pm 3\%$ for measurement flow rate
Flow rate detection method	Differential pressure detection method
Support model	HV-F series /HV-R series
Communication facility	USB (for exclusive use of the automatic calibration of the HV-R series) <sup>**2</sup>
Use temperature-humidity range	0-40 degrees Celsius / 10-90% of RH (there not being dew condensation)
Dimensions	105 (W) x 225 (D) x180 (H) mm
Weight	Approx. 2.0 kg
Power supply	Four alkali size AA batteries (more than eight hours operation) <sup>**3</sup> , AC adapter (option)
Accessories <sup>**4</sup>	Two pieces of orifice boards, Four pieces of size AA batteries (operation check use)
Code No.	<b>080130-8</b>

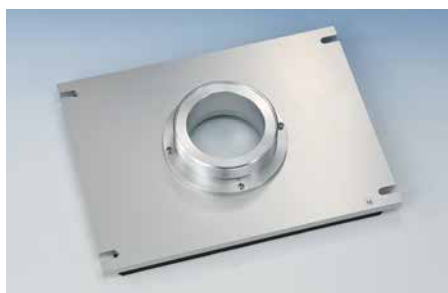
※1 Actual flow rate which is converted at 1 atmosphere correction and temperature is display.  
(20 degrees Celsius, 25 degrees Celsius, 0 degrees Celsius)

※2 USB cable is unattached. When you use automatic calibration, please prepare commercially available cable of A-B type.

※3 It is approximate under the condition of alkali size AA batteries, and 25 degrees Celsius environment.

※4 The square shape adapter and the round shape adapter are unattached. When using OFD-1, the square shape adapter or the round shape adapter must be used together. Please purchase it as separate item.

# Optional Parts



Squire Shape Adapter

## ■Square Shape Adapter

Code No.	080130-0551
----------	-------------

※For HV-1000R / HV-700R



Round Shape Adapter

## ■Round Shape Adapter

Code No.	080130-07511
----------	--------------

※For HV-500R



Soft Case for OFD-1

## ■Soft Case for OFD-1

Code No.	080130-81
----------	-----------

※The carrying case can store the square-shaped adapter and the round shape adapter together with Model OFD-1.

## ■AC Adapter

Code No.	080040-3212
----------	-------------

## ■Orifice Adapter for Round Shape Particle Size Selector

Code No.	080130-0553
----------	-------------

Specifications, and appearance described in this document are based on information as of March 24, 2015. They are subject to change without notice for improvement of the product.

SIBATA SCIENTIFIC TECHNOLOGY LTD.



1-1-62, Nakane Soka-City, Saitama, Japan  
TEL:+81-48-933-1574 FAX:+81-48-933-1591

E-mail:overseas@sibata.co.jp

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

201503K