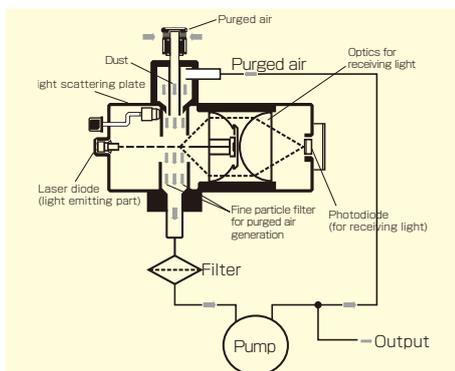


DUST INDICATOR

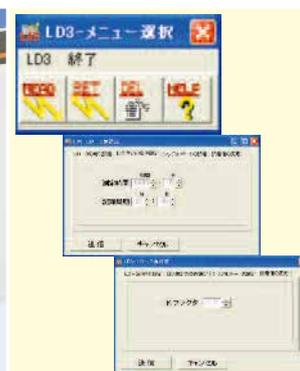
Model:LD-5D



BlockDiagram



Large Filter



Communication Cable with Software S-USB



- Purged air flow system enables the LD-5D to measure high concentration without contamination of its optics.
- Equipped with a large-sized filter for long term operation.
- Able to automatically convert CPM (count per minute) into mg/m^3 by inserting a K factor.

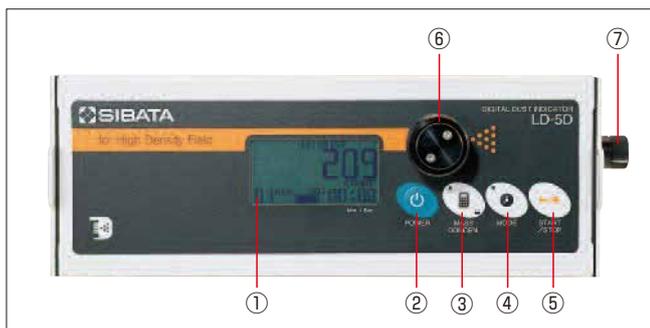
The LD-5D is an aerosol photometer designed to read relative mass concentration of aerosol in high concentration. It is designed to read mg/m³ directly, however it should be remembered that the calibration is strictly valid for the calibration particle. To measure the accurate mass concentration of the aerosol at hand, a comparison measurement using the gravimetric method will be needed to convert a conversion factor (so called the K factor) to the instrument.

Features

- The Model LD-5D can easily convert mass concentration of the measured value and display it by pre-setting a conversion factor for mass concentration.
- Equipped with a recording function (logging function) of the measured value.
- ※ An optional RS-232C cable with software is required to retrieve data. (Refer to chapter 8)

- The calibrated value is stored even after turning the power supply off. An automatic correction of the measured value of aerosol will be performed by using data of calibrated value.
- Provides 3 types of standard data output: USB interface output, voltage output (0-1V) and non voltage pulse output (open collector)
- ※ An optional RS232C cable with software is required to use the RS-232C output.

Top panel



- ① Graphic liquid crystal display
- ② Power switch
- ③ Mass concentration switch
When this switch is pressed, the Model LD-5D converts the measured value to mass concentration value.
- ④ Time setting switch
This switch is used to set measuring time and to change measuring modes.
- ⑤ Start/Stop switch
- ⑥ Air collection opening
This is a collection opening of the air to be measured.
- ⑦ Measurement / Sensitivity adjusting knob

Option

Optuional parts	Code No.
Analog output connector	080000-052
Tripod	080160-3



Communication Cable

Specifications

Code No.	080000-5
Model	LD-5D
Source	Laser diode
Measuring range	0.01 - 100.0mg/m ³
Measuring sensitivity	1CPM=0.01mg/m ³ for the calibration particles
Measuring accuracy	+/- 10% for the calibration particles
Display	Graphic liquid crystal display with back light
Display indication	1. Measured value: Integrating count (0 - 99999) : Concentration (mg/m ³) 2. Measurement time (Down timer) 3. Current time 4. Measurement mode 5. Remaining battery charge 6. K value (set value:0.1 to 9.9) 7. Bar chart (by pushing switch during measurement)
Measurement mode	1. Measuring time (Down timer mode): Measurement time is set by using down timer. (Initial set time for down timer measurement: 1 min.) Available measurement spans: 6 sec, 10 sec, 30 sec, 1 min, 2 min, 3 min, 5 min, and 10 min. 2. Manual: To manually operate the start and stop of measurement. 3. LOG (Logging): The measurement data is stored in the memory during measurement. Able to set measurement time span. 4. Span check: Sensitivity adjustment by measurement and memory of the value of calibration-plate. 5. BG (Back ground): LD-5 deducts BG value automatically from sample measurement value. When this is done, the air-sampling inlet must be closed.
Operating temp.	0 - 40°C
humidity	5 - 90%rh (without dew)
Power supply	1 N:DC12V DC:8 x AA batteries AC:0.00 - Adaptor
Dimensions	245(W)x90(D)x190(H)mm
Weight	3 kg (including batteries)

※Operation System : English Windows98 / Me / XP / Vista / 7 (HOME & PROFESSIONAL)
 ※This is a connector used to connect to a personal computer to process data.
 It is compatible with an USB (*RS-232C) . Connect with the included USB cable.
 ※1 : The RS-232C cable is optional. (Part number : 080000-051)

Specifications, and appearance described in this document are based on information as of April 6, 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/>

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