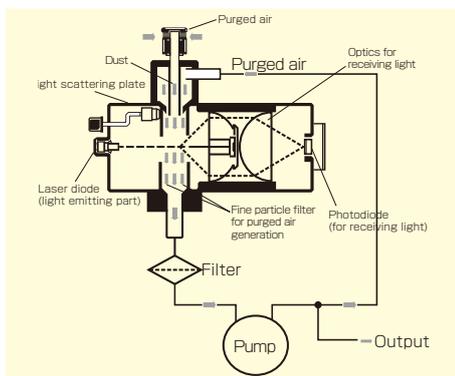


DUST INDICATOR

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.

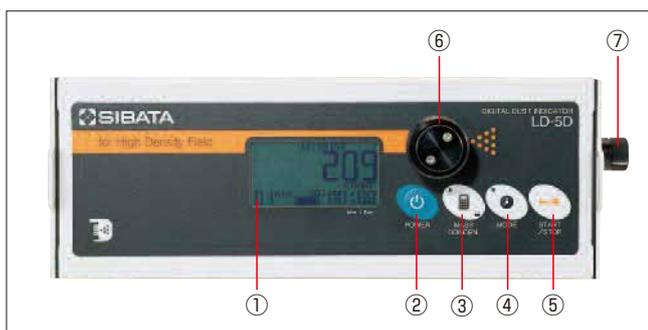
The LD-5D is an aerosol photometer designed to read relative mass concentration of aerosol in high concentration. It is designed to read mg/m³ directly, however it should be remembered that the calibration is strictly valid for the calibration particle. To measure the accurate mass concentration of the 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.

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