



KANOMAX

Laser Particle Sensor Setting Software

Operation Manual

KANOMAX JAPAN INC.

Keep this manual handy for future reference.

01001

13.08

Precautions When Using Kanomax Software Products in Windows Vista or 7

For Stored Data:

Stored data may not appear in Windows Explorer if it was saved in the C:¥ folder or one of the folders in Program Files (Program Files(x86) for 64bit).

Click "Compatibility files" in Windows Explorer to display the data.

If you cannot perform this operation, or "Compatibility files" does not appear, you need to save the data in a folder such as "My Documents" which users can read and write to.

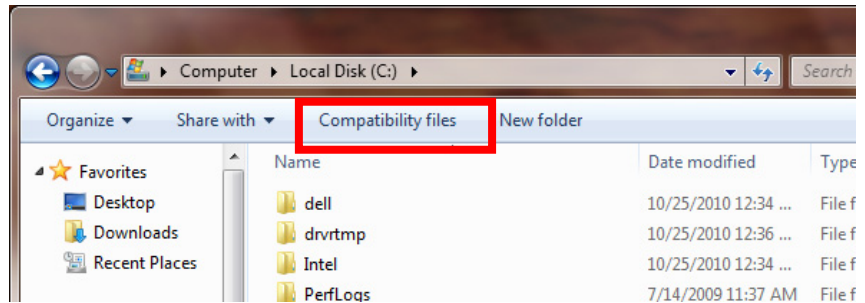


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1. Overview

1.1. Check the Package

This software contains the following item.

1. LASER PARTICLE SENSOR SETTING SOFTWARE DVD-ROM
MODEL 3716A-40 (1 pc.)

If you find anything obviously broken or missing, please contact your distributor or KANOMAX service center immediately.

1.2. System Overview

PC Requirements:

- | | |
|--------|--|
| Model: | IBM PC compatible models |
| OS: | English or Japanese
Windows XP SP2 or above, Windows Vista SP1 or above, Windows 7
.NET Framework 3.5 or above |

2. Installation

2.1. Installation

To install the software, make sure to login with an administrative user account and follow the procedure below:

Insert the software DVD-ROM into the DVD-ROM drive and follow the steps below to install it.

* Start the operation from the Explorer.

- (1) If you're installing the software to a 32-bit OS, execute "Setup.exe" within the [32bit\English] folder on the DVD-ROM.
If you're installing to a 64-bit OS, execute "Setup.exe" within the [64bit\English] folder on the DVD-ROM.
- (2) Follow the instructions displayed on the screen to install the software.
- (3) When the installation is successfully complete, [KANOMAX] will be registered in the [Program] folder on the [Start] menu.

2.2. Boot and Exit

To boot the software :

From the Start menu, click [All Programs] → [KANOMAX] → [Laser particle sensor setting software] → [Laser particle sensor setting software].

The main screen of the remote console software will be displayed.

To exit the software :

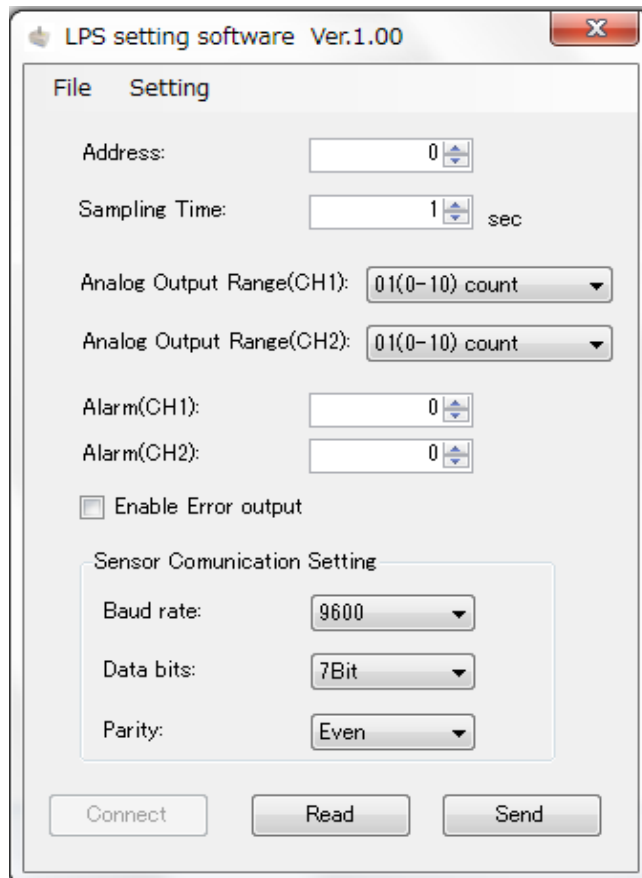
- From the menu, select [File] → [Exit] or;
- Click the rightmost [X] button of the title bar on the main screen.

2.3. Uninstallation

- (1) Open [My Computer] → [Control Panel] → [Add or Remove Programs].
- (2) Select [Laser particle sensor setting software] from the list of the programs which are currently installed, and click [Change/Remove] button.

3. Main Screen

3.1. Main Screen



3.2. Menu List

File menu

[Exit] Exits the program.

Setting menu

[Communication Setting] Configures the communication settings.
(Default value: Baud rate = 9600, Data bits = 7Bits,
Parity = Even)

3.3. Parameter Settings

- Address :Sets the sensor address.
(Input range: 000-512; Default value = 0)
- Sampling Time :Sets the measurement sampling time.
(Input range: 1-60; Default value = 1)
- Analog Output Range :Sets the analog output range for CH1 and CH2.
This parameter is individually settable for each channel.
(Setting options: 01(0-10) count, 02(0-100) count,
03(0-1000) count, 04(0-10000)count,
11(0-10) cf, 12(0-100) cf, 13(0-1000) cf,
14(0-1000000)cf,
21(0-353)m³, 22(0-3530)m³, 23(0-35300)m³,
24(0-353000000) m³
; Default value = 01(0-10))
- Alarm (CH1) : Configures alarm settings.
(3716A = 0.3μ m; 3717A = 0.5μ m)
(Setting range: 0-100; Default value = 0)
- Alarm (CH2) : Configures alarm settings.
(3716A = 0.5μ m;3717A = 5μ m)
(Setting range: 0-100; Default value = 0)
- Error Output Setting : Set the current output ON/OFF in the event that flow rate errors and LD errors are detected.
ON (ticked): Current output varies according to error contents.
OFF (unticked): Measurement value will be output even if an error is detected.
*Configure the appropriate error output settings based on the system to connect.
- Baud rate : Sets the communication baud rate of the sensor.
(Setting options: 4800, 9600, 19200, 38400
;Default value = 9600)
- Data bits : Sets the communication data bits of the sensor.
(Setting Options: 7,8; Default value = 8)
- Parity : Set the communication parity of the sensor.
(Setting options: None, Even, Odd; Default value = Even)

3.4. Command Buttons

Connect

Communicates with the sensor connected to the PC communications port, using a USB-RS485 conversion module.

When the sensor is connected, the current settings will be read and displayed on the screen.

For the first time when the USB-RS485 converter is connected to the PC using the USB cable, you need to install the driver. Connecting the USB-RS485 converter will automatically launch the driver install wizard. Refer to the accompanying instruction manual of the USB-RS485 converter to install the driver.

Read

Reads the current settings from the sensor and displays it on the screen.

Send

Sends the parameters configured on the screen to the sensor.

4. Communication Settings

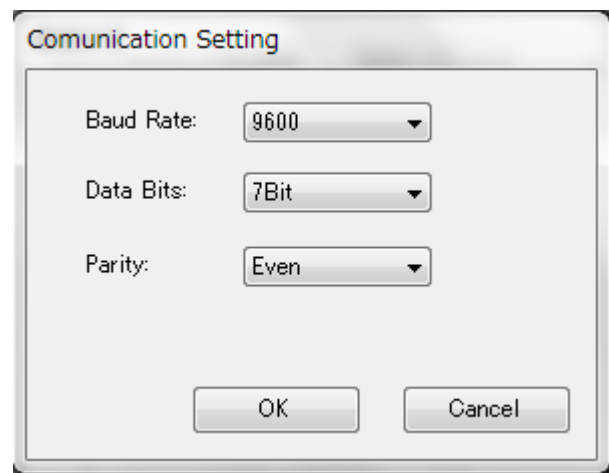
4.1. Communication Settings

From the menu, select [Setting] → [Communication Setting] to open the setting screen.
Set the baud rate, data bits and parity in accordance with the sensor.

The default values are as follows:

Baud Rate : 9600
Data Bits : 7Bits
Parity : Even

If these settings are not the same as the Actual communication settings for the sensor, it will not be possible to connect with it.

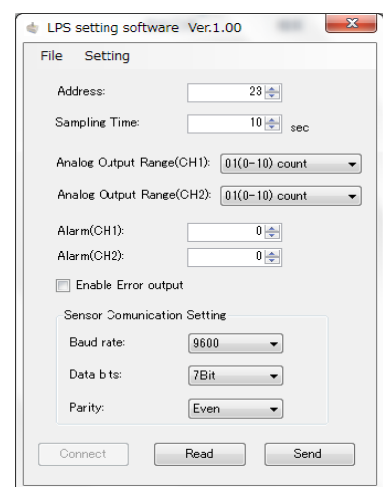


5. Settings Procedure

5.1. Connecting with the Sensor

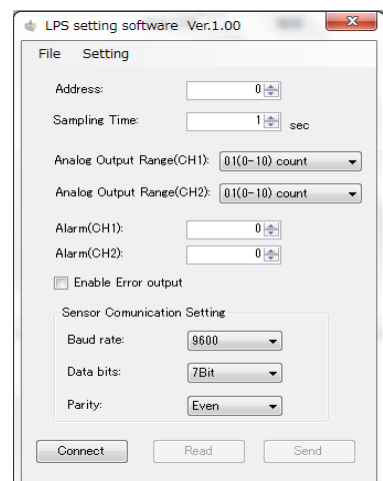
When the software is started, a search will be performed to find if the sensor is connected or not. If the sensor is already connected, the current parameter settings for the sensor will be read and displayed on the screen.

In this instance, the [Read] and [Send] buttons become active.



If a sensor is not connected at the time of startup, the default values will appear.

In this instance, only the [Connect] button is active. Connect the sensor and click the [Connect] button. When the sensor connection completes, the current parameter settings for the sensor will be read and displayed on the screen and the [Connect] button will become inactive and the [Read] and [Send] buttons will become active.



5.2. Setting and Sending the Parameters

Set the address, sampling time and alarm by using the Up and Down buttons or by inputting a value to each item. Select the analog output range, baud rate, data bits and parity from the drop down lists.

When the settings are complete, click the [Send] button.

Once the parameters are successfully sent, the [Read] and [Send] buttons become inactive and the [Connect] button becomes active.

To set another sensor, disconnect the currently connected sensor and repeat the Procedures in 5.1. Connecting with the Sensor and 5.2. Setting and Sending the Parameters.



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