

Panasonic[®]

MEASUREMENT SENSOR

HL-G1

Easy Setup Guide

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1 Hardware

The HL-G1xx-S-J and GT touch terminal have arrived.



Please have a USB-to-Mini-USB cable ready to connect the GT touch terminal to the PC.



2 Download software

Please find the application software on our home page
<http://www.panasonic-electric-works.com/peweu/de/html/27143.php>:






◆ Procedure

1. Click the download symbol next to the software desired (HL-G1 GTxx software, HL-G1 setting software).




[HOME](#) / [IHR PANASONIC ELECTRIC WORKS](#) / [DOWNLOADS BY PRODUCT NAME](#) / [SENSORS](#) / [HL-G1](#)

HL-G1

Manuals

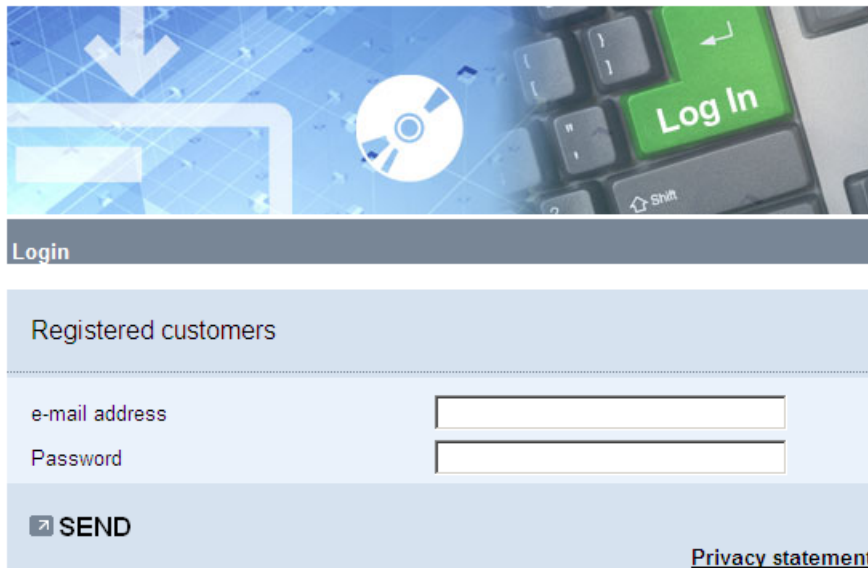
Product number	Description	Language	Release date	Download
ME-HLG1 (00)	HL-G1 Series User's Manual	EN	10/2010	 (1.97MB)
ME-HLG1DP (00)	HL-G1 Series User's Manual (Console Version)	EN	10/2010	 (1.02MB)
	HL-G1 User's Manual, Compact Laser Displacement Sensor (Console-dedicated Version)	EN	10/2010	 (1.02MB)
	HL-G1 User's Manual, Compact Laser Displacement Sensor	EN	10/2010	 (1.97MB)

Software

Product number	Description	Language	Release date	Download
	HL-G1 GT02 software		2/24/2011	 (5.84MB)
	HL-G1 GT12 software		2/24/2011	 (6.24MB)
	HL-G1 PC setting software		2/24/2011	 (22.27MB)

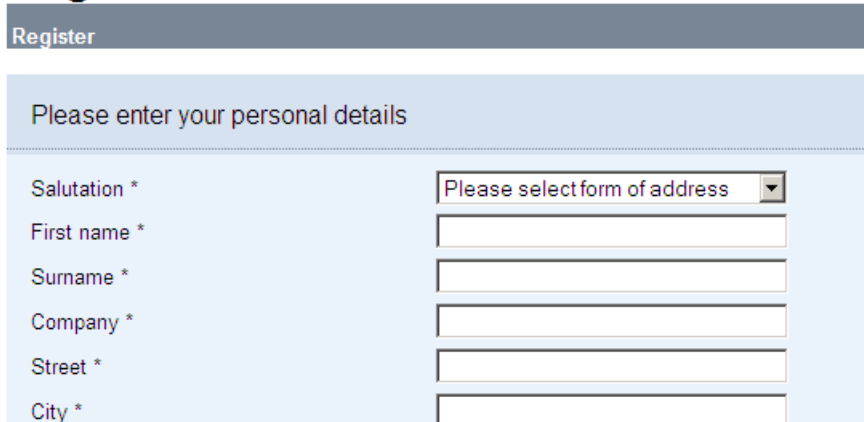
You are directed to our password-protected area.

Login

A screenshot of a login form. At the top, there is a banner image showing a computer monitor, a CD-ROM, and a keyboard with a green 'Log In' key. Below the banner is a dark grey header with the word 'Login' in white. The main form area has a light blue background. It contains the text 'Registered customers' followed by two input fields: 'e-mail address' and 'Password'. Below these fields is a button labeled 'SEND' with a right-pointing arrow. In the bottom right corner, there is a link for 'Privacy statement'.

2. If already registered, enter your e-mail address and password
or
Register as a new customer.

Register

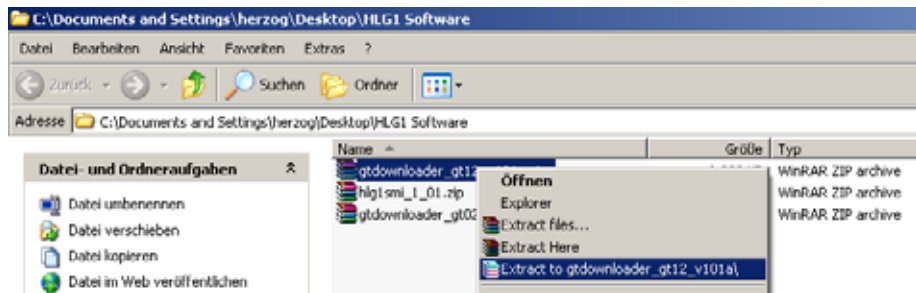
A screenshot of a registration form. At the top, there is a dark grey header with the word 'Register' in white. Below the header is a light blue section with the text 'Please enter your personal details'. The form contains several input fields: a dropdown menu for 'Salutation *' with the text 'Please select form of address', and text input fields for 'First name *', 'Surname *', 'Company *', 'Street *', and 'City *'. Each field is followed by a small asterisk indicating it is required.

Fill out the online form to profit from this free service for members.

3. After registering, call up the desired software files
<http://www.panasonic-electric-works.com/peweu/de/html/27143.php> again.

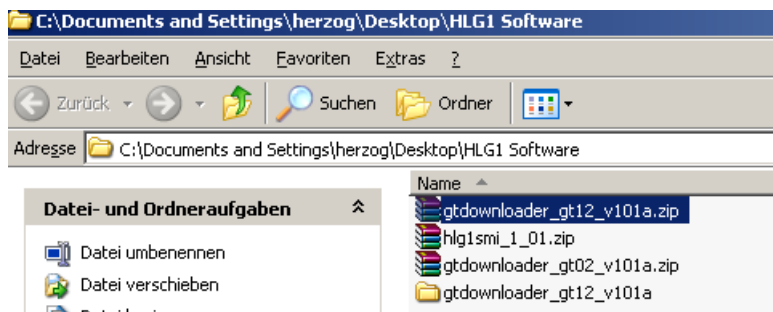
4. Save all files required in one folder.

Remember the folder when it comes time to install the GT driver (see "Install the GT driver" on page 9).



5. Unpack the ZIP file.

A new subfolder is created with the same name as the ZIP file.



6. Repeat this step for all zipped files.

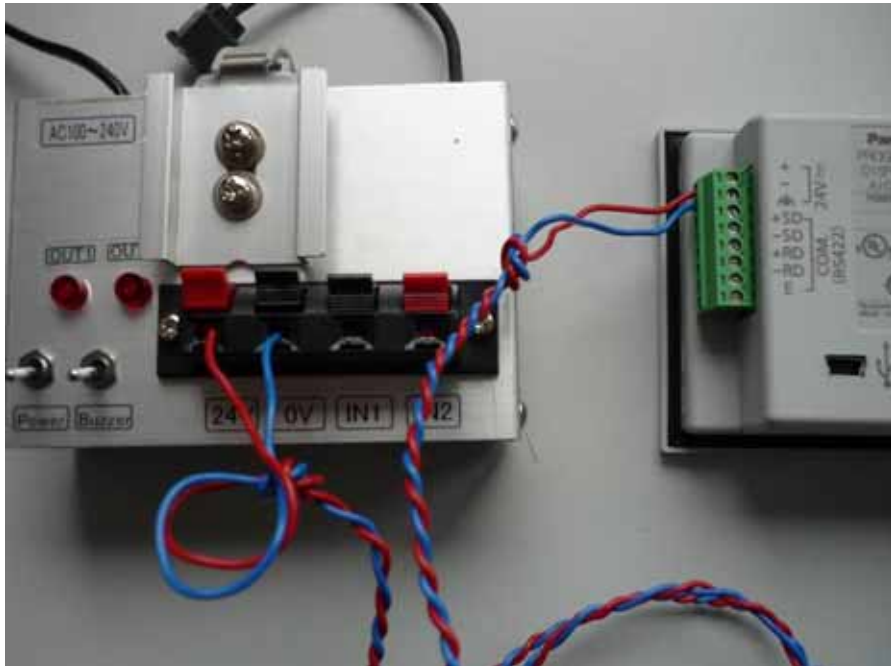
3 Wire the hardware

Before you can install software on your GT touch terminal, you have to connect it.



◆ Procedure

1. Connect the GT touch terminal to the terminals +24V and 0V.



2. Connect the GT touch terminal to your PC using a USB-to-Mini-USB cable.



3. Turn on the power.

The GT touch terminal boots. After a few seconds, the screen displays the following:

No Screen data

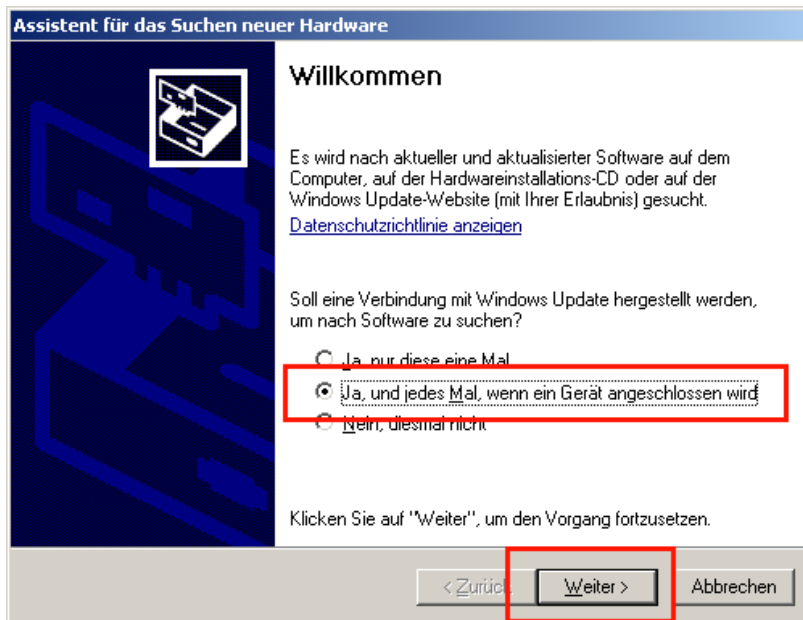
4 Install the GT driver

Your PC will find new hardware and launch the Hardware Assistant.

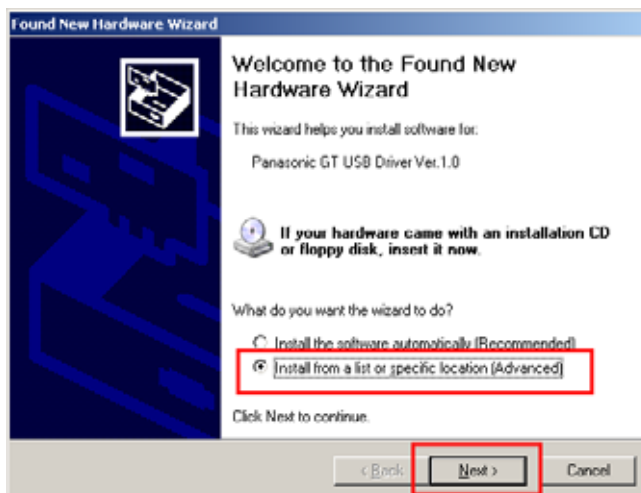


◆ Procedure

1. If this dialog appears, select "Ask me to search Windows every time I connect a new device." Select [Next].

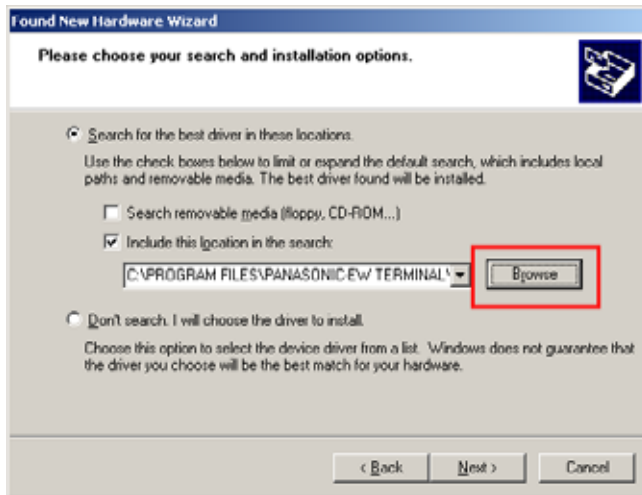


2. Select the option button "Install from a list or specific location (Advanced)". Select [Next].

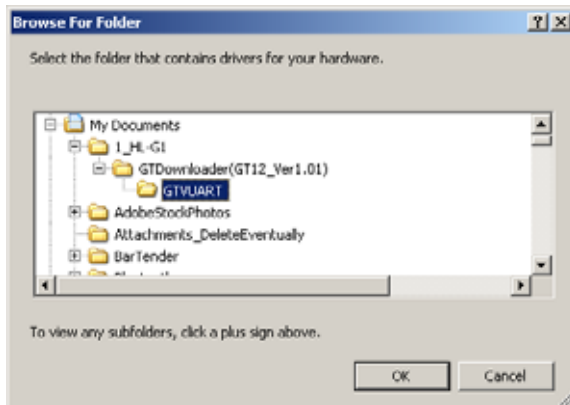


3. Search your PC for the folder, in which you saved the software you downloaded

(see "Download software" on page 4).

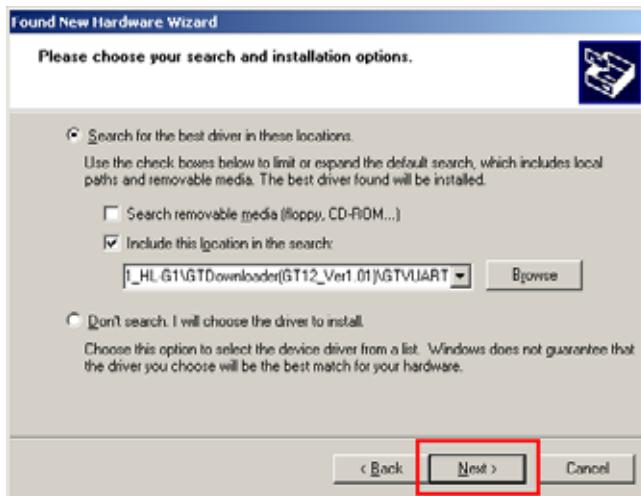


4. Browse to the folder "GTVUART".



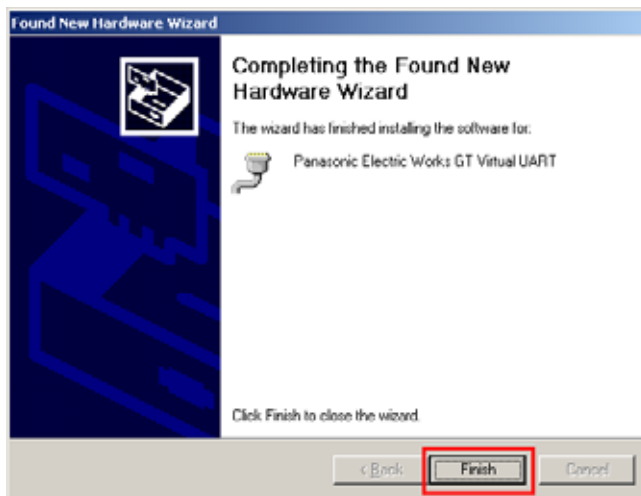
5. Select [OK].

6. Select [Next].



The software installation process begins.

7. When the software has been installed, click [Finish].

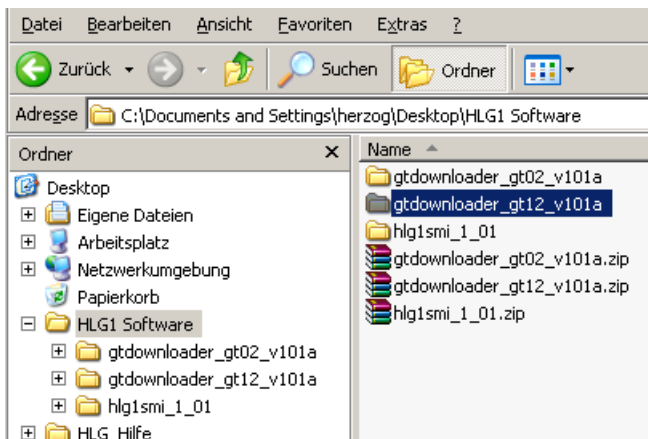


5 Install software for the GT touch terminal

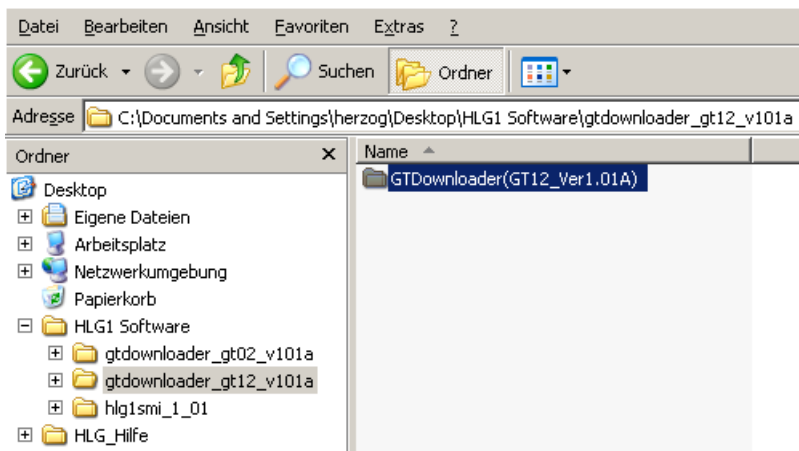


◆ Procedure

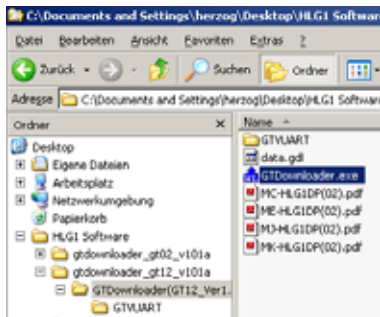
1. Go to the folder where you saved the software when you downloaded it (see "Download software" on page 4).
2. Open the folder "GTDownloader_gt_xx_xxx".



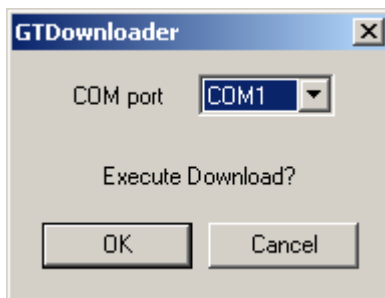
3. Open the folder "GTDownloader".



4. "Double-click "GTDownloader.exe" .

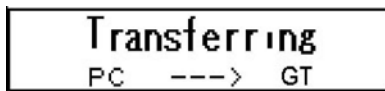


The dialog "GTDownloader" opens.

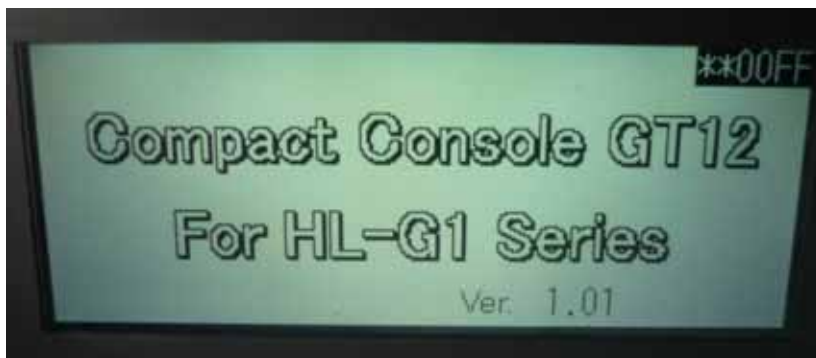


5. Determine which COM port the GT touch terminal uses (see "Use Computer Management to find COM port" on page 15).
6. Select the correct COM port.
7. Select [OK].

Data transfer begins. **Do not break the connection!**



After a time, the following display appears:



8. Click [OK] after the software has been successfully installed on your GT touch terminal.



9. Turn off the power.

The HL-G1 can now be connected to the GT touch terminal.

And now?

- You wish to use the sensor and GT touch terminal (see "Using the HL-G1 sensor and GT touch terminal" on page 23).
- You also wish to install the PC software HL-G1SMI (see "Install PC software" on page 16).

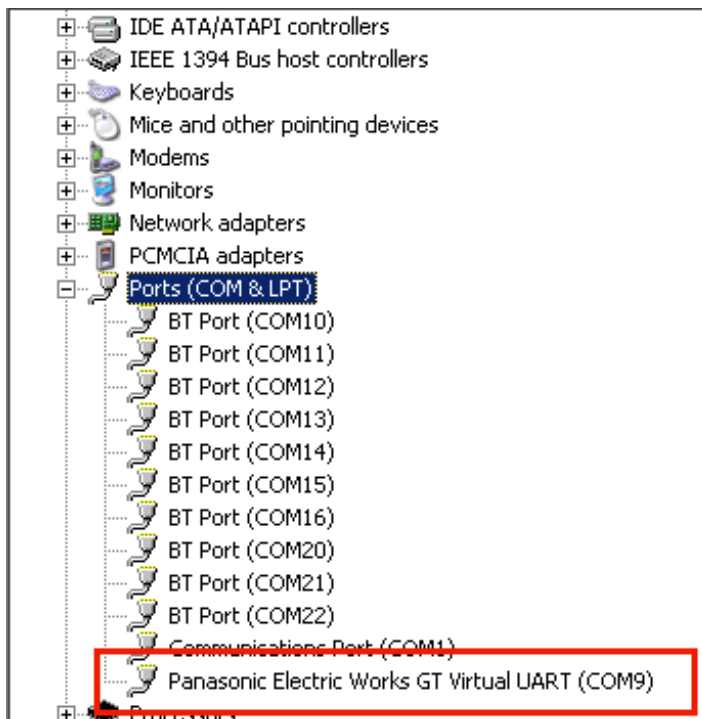
5.1 Use Computer Management to find COM port



◆ Procedure

1. Open Computer Management, e.g. via System Control: System → Hardware → Computer Management.
2. Click "Ports (COM & LPT)".

The Panasonic GT touch terminal is shown.



3. Remember the COM port, e.g. COM9.

6 Install PC software

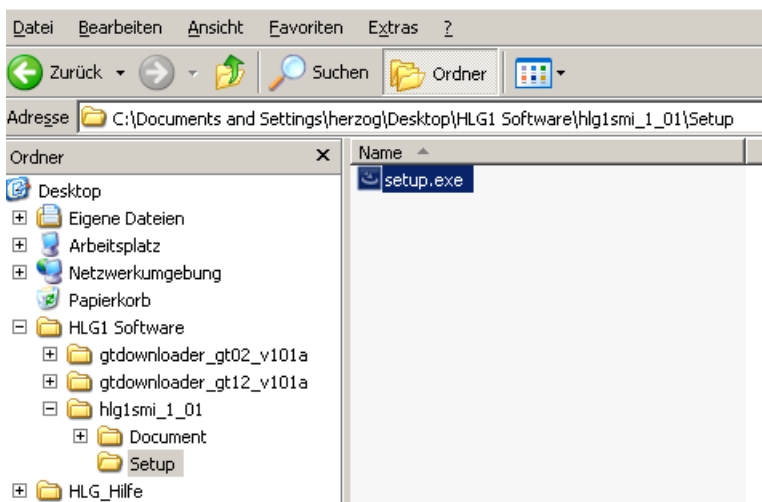
The following operating systems are supported:

- Microsoft Windows® XP Professional 32 bits (SP2) or later
- Microsoft Windows® Vista Business 32 bits
- Microsoft Windows® 7 Professional 32 bits

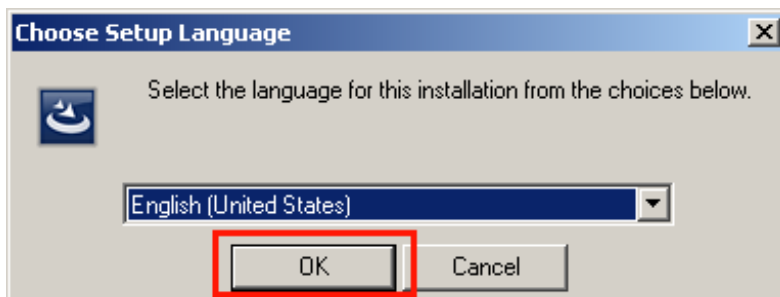


◆ Procedure

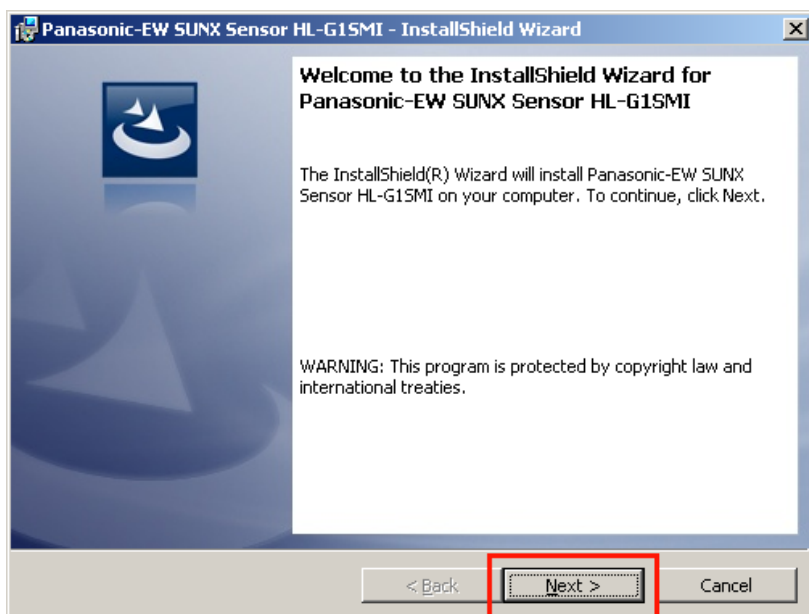
1. Search your PC for the folder, in which you saved the software you downloaded (see "Download software" on page 4).
2. Open the folder "hlg1smi_1_01\Setup" and double-click "Setup.exe".



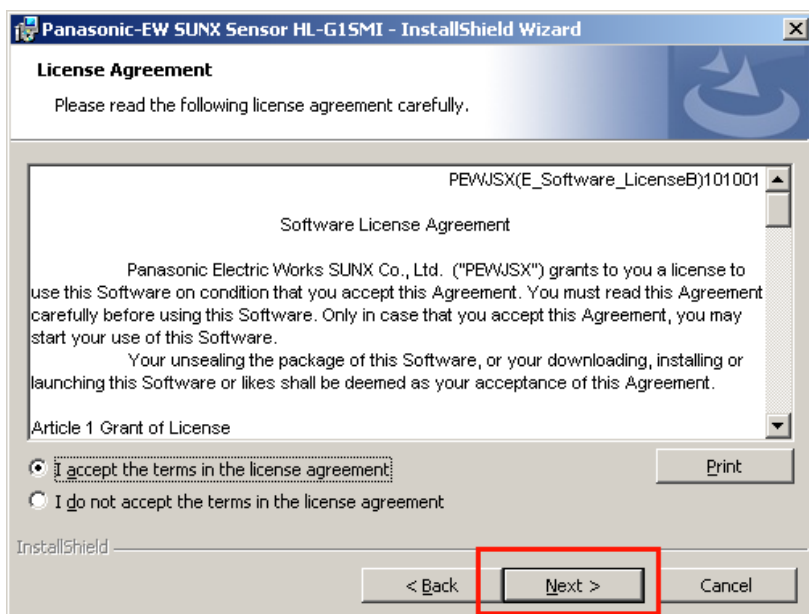
3. Select the desired language.
4. Select [OK].



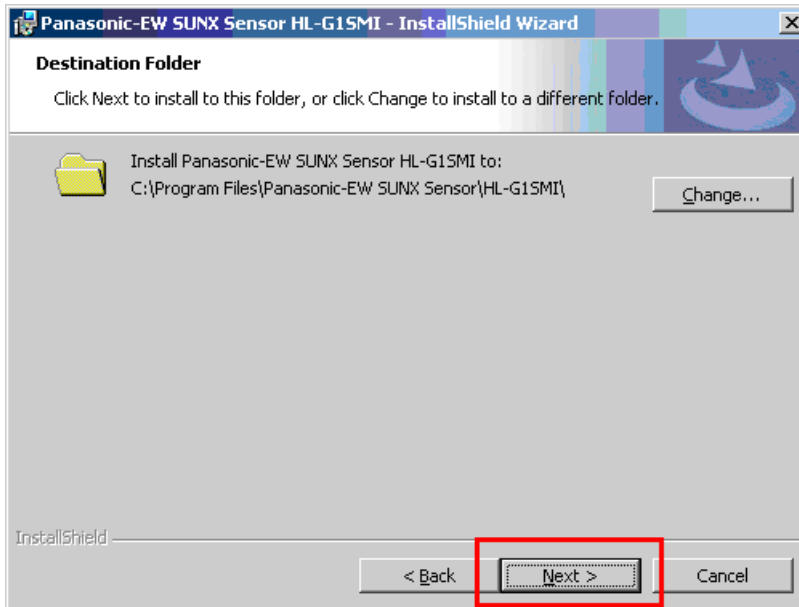
The HL-G1SMI installation assistant opens.



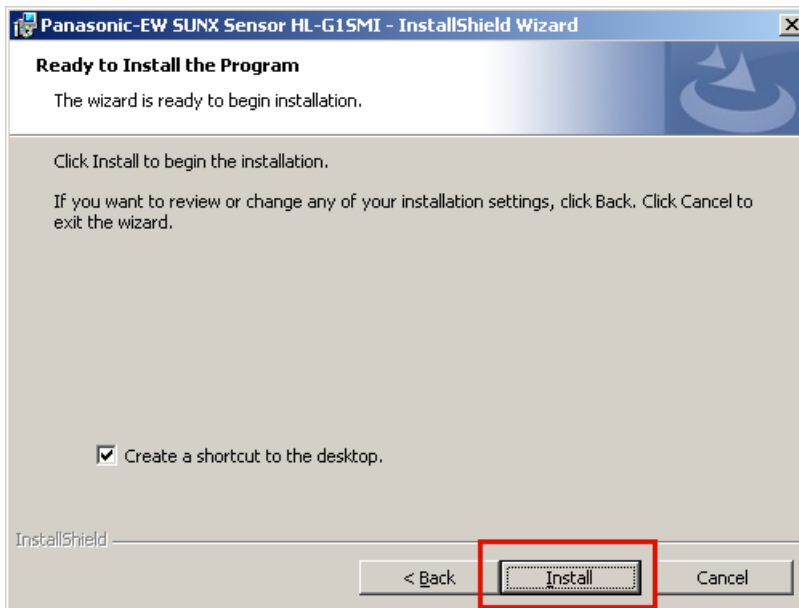
5. Select [Next].
6. Accept the license terms (License Agreement).



7. Select [Next].



8. Select [Next].
9. Select [Next].



The installation begins.

10. When the installation has been finished, click [Finish].

The PC software HL-G1SMI has been installed and can be opened via the icon on the desktop.



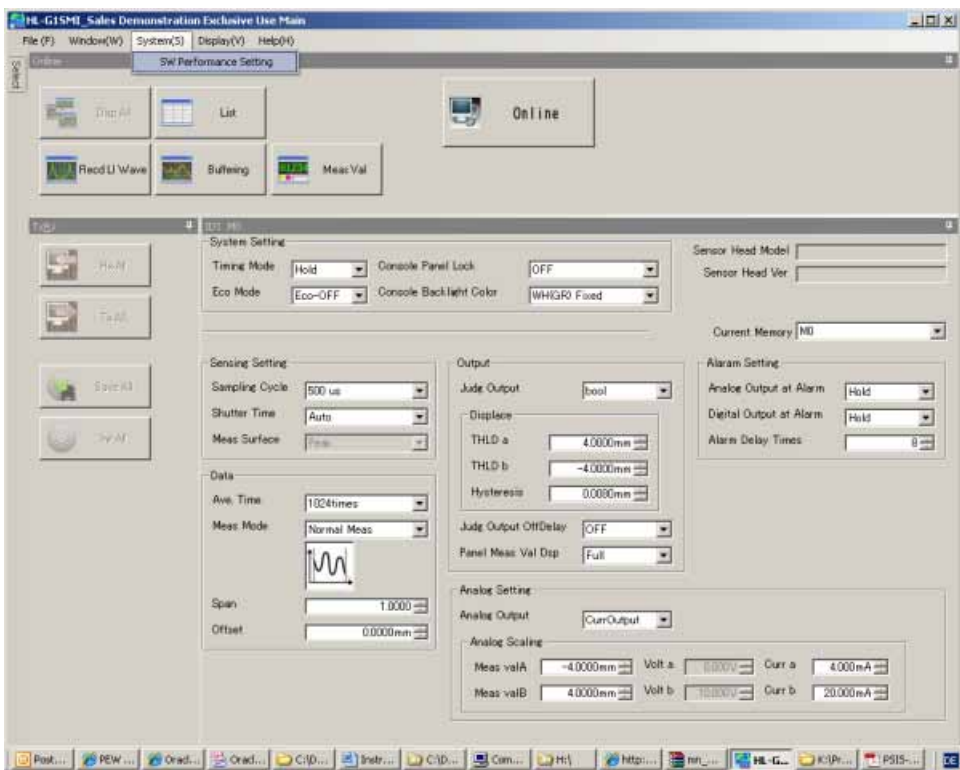
7 Basic settings in the PC software HL-G1SMI

The main dialog is displayed when the software is opened.

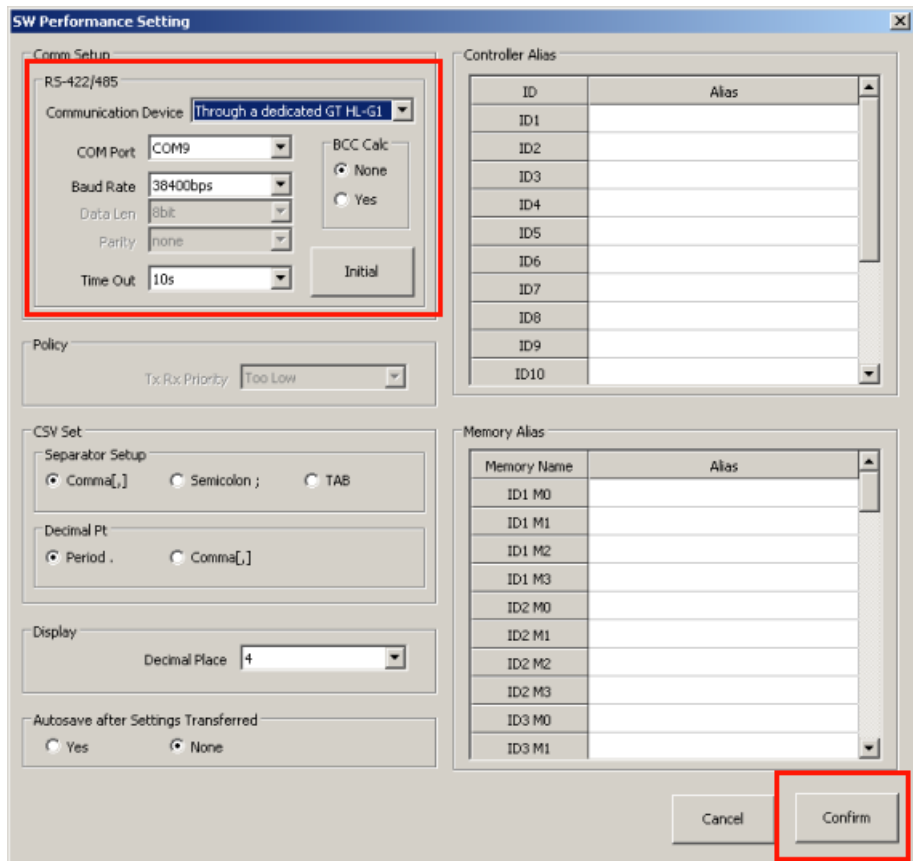


◆ Procedure

1. System(S) → SW Performance Setting



The dialog "SW Performance Setting" opens.



2. Select the following settings:

Parameter	Setting
Communication Device	Through a dedicated GT HL-G1
COM port	As determined by Computer Management (see "Use Computer Management to find COM port" on page 15)
Baud Rate	38400 bps
Time Out	10s

3. Select [Next].

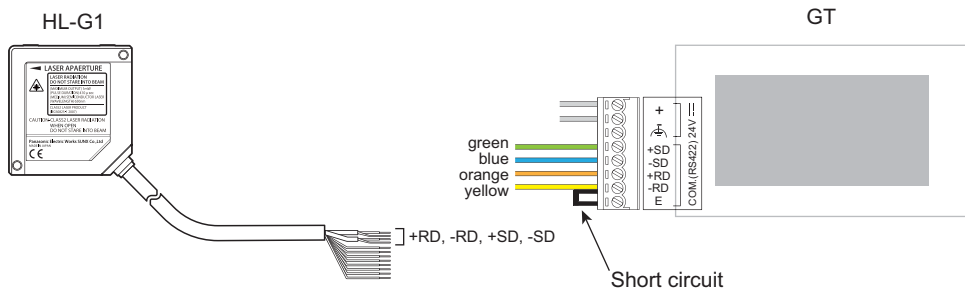
The dialog closes and you return to the main dialog. The software can now be used with the HL-G1 sensor.

8 Wiring the components



◆ Procedure

1. Turn off the power.
2. Connect the sensor to the power supply directly on the GT touch terminal.
3. Connect the sensor via RS422 with the GT touch terminal as illustrated below.
4. In addition, short **-RD** and **E**.



◆ NOTE

- Be sure that none of the unused, open wire ends are short-circuited.
- Setting: "Terminating resistor ON".
- The wire colors shown here apply to V1.12 and up (from production December 2010). Before this, the colors were:
 - +SD: before black (now green)
 - -SD: before white (now blue)
 - +RD: before orange (now orange)
 - -RD: before white (now yellow)

9 Operation

9.1 Using the HL-G1 sensor and GT touch terminal



◆ Procedure

1. Turn on the power.
The GT touch terminal boots. The measurement sensor HL-G1 begins emitting its laser beam.
2. Aim the laser beam at a test object with the sensing range.
The GT touch terminal displays the same measurement value as the sensor's display.

9.2 Using the HL-G1 sensor, GT touch terminal and PC software



◆ Procedure

1. Make sure that the GT touch terminal is connected to the PC, that the software is installed completely and that the basic settings have been made according to the directions provided in this manual .
2. Turn on the power.
3. Open the software HL-G1SMI by using the desktop icon, for example.



4. Click [Online].

If online appears in red, your new HL-G1 sensor has been successfully put into operation and the sensor is online.

10 Questions?

If everything does not function as described, call us at: +49 8024 648 737.

Record of changes

Version	Date	Changes
V1	March 2011	First edition
V2	April 2011	Minor corrections
V3	September 2011	Wire colors corrected, note added (see page 22)



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