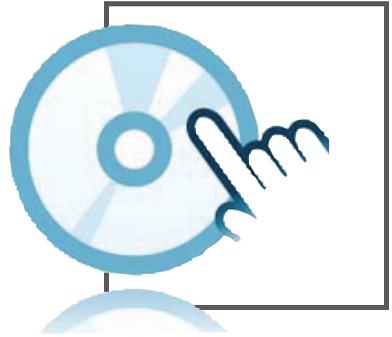


MANUAL

**VISION
CONFIGURATOR**
Software



With regard to the supply of products, the current issue of the following document is applicable: The General Terms of Delivery for Products and Services of the Electrical Industry, published by the Central Association of the Electrical Industry (Zentralverband Elektrotechnik und Elektroindustrie (ZVEI) e.V.) in its most recent version as well as the supplementary clause: "Expanded reservation of proprietorship"

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1 Introduction

Congratulations

You have decided to purchase software for a Pepperl+Fuchs device. Pepperl+Fuchs develops, produces and markets electronic sensors and interface modules worldwide for the automation technology market.

Before you install and start this software, please read these operating instructions thoroughly. The instructions and notes contained in this operating manual will guide you step-by-step through the installation procedure and how to use the program so that you can enjoy trouble-free use of this software. By doing so, you:

- will be confident in your use of the software
- can utilize the entire range of software functions
- avoid faulty operation and associated errors

Store this operating manual somewhere safe in order to have it available for future reference.

Symbols used

The following symbols are used in this manual:



Note!

This symbol draws your attention to important information.



Handling instructions

You will find handling instructions beside this symbol

Contact

If you have any questions about the device, its functions, or accessories, please contact us at:

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Conventions

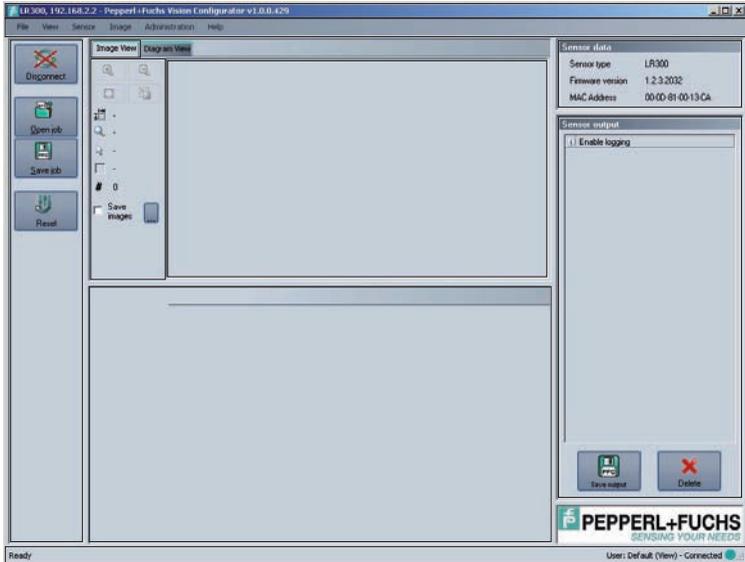
To help you locate and interpret information easily, Pepperl+Fuchs software manuals always use the same visual orientation aids. See below:

Style	Meaning
"Entry"	Words in "quotation marks" are entered where specified.
Button	Bold Words formatted in this way are buttons or titles on your screen.
KEY	Words written in UPPER CASE are keys on your keyboard.

3 Product Description

3.1 Vision Configurator

Vision Configurator is a software program for operating a sensor from the PC. The connection between sensor and PC allows you to display and modify various sensor parameters via the graphical user interface. Vision Configurator also contains status messages and visualization and evaluation features.



4 Installation

4.1 Minimum hardware and software requirements

Before you install the software, check that all the minimum hardware and software requirements have been met.

Vision Configurator must be installed locally and cannot be run from a network drive.

The minimum hardware and software requirements are listed below:

Operating system	Windows XP
Processor	1 GHz
Resolution	1024 x 768
Working memory	1 GByte
Software platform	.NET 2.0 or higher



Note!

If the software platform is not installed, you will have to install it yourself. The software can be found on the Pepperl+Fuchs website www.pepperl-fuchs.com under Software. The Download link will also be displayed during installation.

4.2 Installation



To install Vision Configurator on the computer, proceed as follows:

1. Download the Vision Configurator for the appropriate sensors from the Pepperl+Fuchs website or insert the storage medium in the CD/DVD drive.
 - ↳ If you downloaded the file from the Internet, the file will first have to be unzipped.
2. Double click the VCSetup*.exe file to start it.
 - ↳ A dialog window to select a language will open.



Figure 4.1: Dialog box for selecting a language

3. Press **OK**.
 - ↳ The Setup wizard starts.
4. Follow the instructions by clicking **Next**.
 - ↳ Vision Configurator is installed.
5. Check the box next to **Start Vision Configurator**.
6. Press the **Finish button**.
 - ↳ Vision Configurator has been installed.

5 Launch program

After installing on the PC, the Login screen pops up automatically.



If the Login screen does not appear, start the software as follows:

Start the software by double-clicking the symbol on the desktop.

↳ The Login screen pops up.

5.1 Window layout of Login dialog

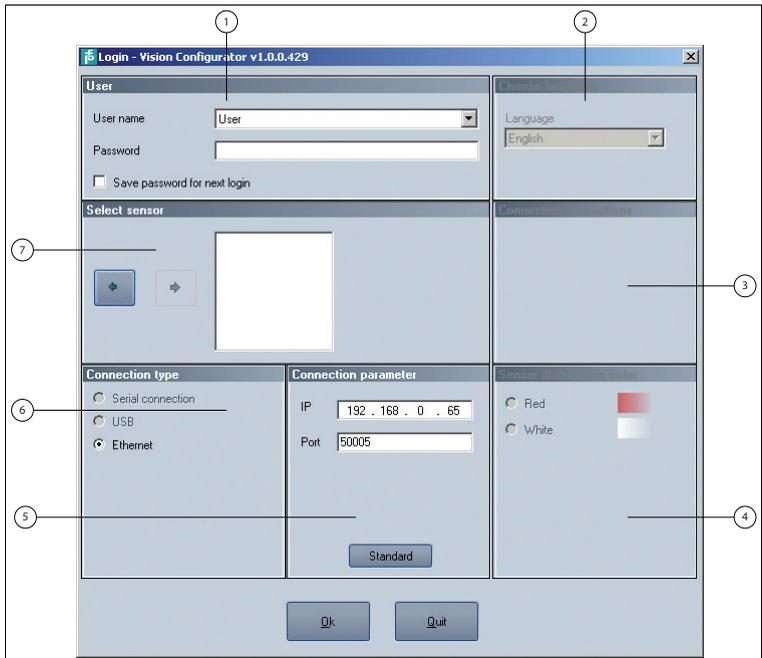


Figure 5.1: The Login screen

1	User	List of users to choose from
2	Choose language	List of languages to choose from
3	Connection instructions	Shows connection instructions
4	Sensor illumination color	Displays a choice of illumination colors
5	Connection parameter	Displays a choice of connection parameters
6	Connection type	Displays a choice of connection types
7	Select sensor	Displays a choice of sensors

5.2 Logging In Using the Login Dialog



Note!

In the as-delivered version, the following user roles will already be defined under **User name** in the **User** area with various authorizations.

User rights and password

User rights	Description	Password
Default	View all information Create users at same level or lower	A password is not required
User	View all information Configuring the sensor Create users at same level or lower	User
Admin	View all information Configuring the sensor Create and delete users	Request the Admin password from P+F



Select users

1. Select the required user from the **User name** drop-down list.
2. Enter the relevant password in the **Password** input box.
3. If you want to save the password for the next time you login, select the check box **Save password for next login**.



Select sensor

The sensor is selected in the **Select sensor** area as follows:

Use the arrow buttons to select the sensor to be used to establish the connection.

↳ The selected sensor will be displayed in the image display.



Select connection type

The connection type is selected in the **Connection type** area as follows:

Use the Option buttons to select the required connection type.



Setting connection parameters

The parameters needed to establish the connection are set in the **Connection parameter** area.

Activate the **Standard** button.

↳ The inputs are reset to the default sensor values.



Note!

Recording the network configuration

The sensor communicates with the connected machine control system using the TCP/IP protocol. To ensure proper communication, you must note all the changes you make to the network configuration.



Select language

The language is selected in the **Choose language** area as follows:

Select the required language from the drop-down list.



Selecting the illumination color

The illumination color is selected in the **Sensor illumination color** area as follows:

Use the Option buttons to select the required illumination color.



Login

1. Double check the settings you have made.
2. If they are OK, press **OK** button.

↳ You are now logged in.

6 Operation

6.1 Layout of the application window

The application window pops up after you log in.



Note!

The number of menu items depends on the selected sensor; not all menu items will be available. Only those menu items required to configure the sensor will be displayed.

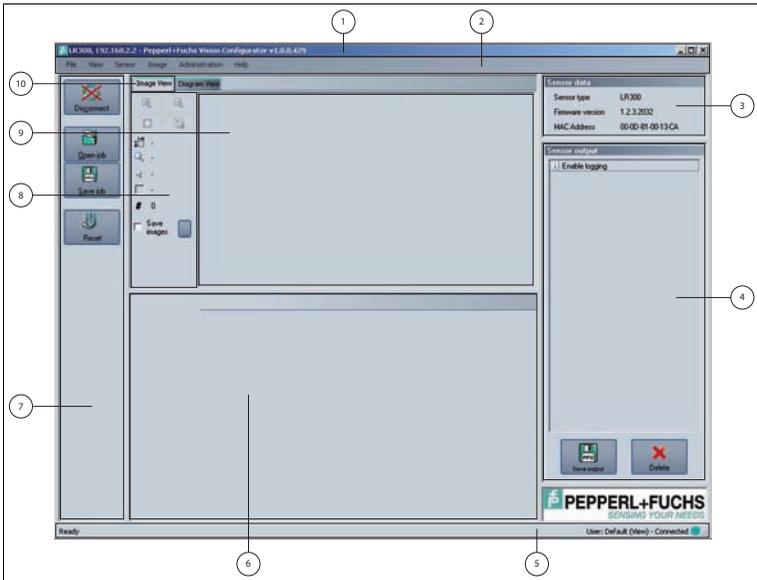


Figure 6.1: The application screen

The software is designed to be similar to most Windows applications.

1	Title bar	displays the name of the connected sensor displays the software designation contains the buttons Minimize / Maximize / Close
2	Menu bar	displays all the menus in the program provides an overview and helps with navigation
3	Sensor data	displays data from the connected sensor
4	Sensor output	displays the read results
5	Status bar	displays status information about the application
6	Parameter area	contains the sensor-specific parameters you can enter
7	Toolbar	contains icon buttons as an extension to the menu
8	Results area	displays results from the sensor A varying number of tabs will be displayed depending on which sensor is connected. Typical tabs are: "Image View" – displays images from the sensor that may contain additional information "Result View" – displays readings or statistics "Diagram View" – displays a diagram of the measurement data
9	Image display	displays images or diagrams
10	Tab	used to layout and arrange information the tab in the foreground is the active one A varying number of tabs will be displayed depending on which sensor is connected. Typical tabs are: "Image View" – displays images from the sensor that may contain additional information "Result View" – displays readings or statistics "Diagram View" – displays a diagram of the measurement data

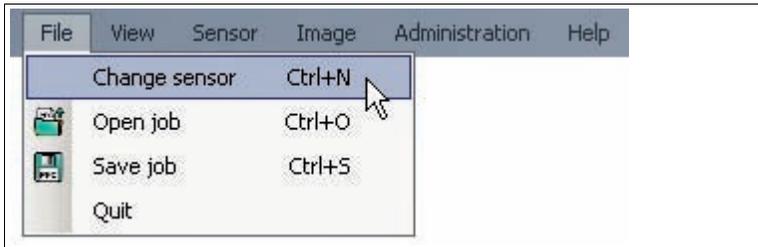
6.2 Menu bar

The menu bar contains a list of menu items. The individual items depend on the type of sensor connected and the current authorization level and are, therefore, not always all visible.



Figure 6.2: Menu bar

Menu File



Change sensor	Disconnects the sensor and returns to the Login dialog.
Open job	Loads a sensor configuration stored on the PC.
Save job	Saves the current sensor configuration on the PC.
Quit	Terminates the program.

Table 6.1: Menu File

Menu View



Show standard buttons	Toggles the display of the buttons in the bar on the left on and off.
Show sensor data	Hides the output of the sensor data in the top right of the screen.
Displayed message types...	This item enables you to specify which types of message from the sensor are to be displayed. Messages issued by the selected types are displayed in the right-hand column "Sensor output."

Table 6.2: Menu View

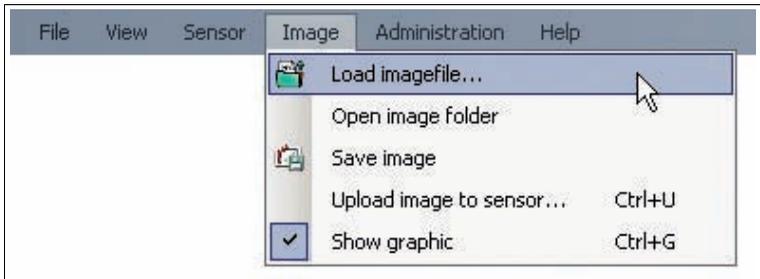
Menu Sensor



Reset sensor	Resets the sensor to its default settings
Make firmware update	Performs a firmware update. This command should only be used by experienced users.
Change network settings	If the sensor is connected to the PC via an Ethernet network, this command enables some of the network settings on the sensor to be changed. Once they have been changed, the connection between Vision Configurator and the sensor automatically disconnects. Press the Connect button to open the Login screen again.

Table 6.3: Menu **Sensor**

Menu Image



Load imagefile	Opens an image file and displays the image in the image display.
Open image folder	Opens the folder in which the current images will be saved.
Save image	Saves the image currently displayed on the PC.
Upload image to sensor	Uploads an image file from the PC to the sensor.
Show graphic	Switches the Overlay display data sent by the sensor on and off.

Table 6.4: Menu **Image**

Menu Administration



User administration	Opens a screen in which all the currently created users at the same authorization level or lower are displayed. New users with the same authorization level or lower can also be created and deleted here. In addition, a user password can be reset to the default password for the relevant user level.
Change password	Changes the current user's password.
Change user	The Login screen pops up and a different user and/or sensor can be selected.

Table 6.5: Menu **Administration**

Menu Help



Info	Displays information about the Vision Configurator.
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Table 6.6: Menu **Help**

7 Fault messages

7.1 What to do in the event of an error

Before calling the Service Center, please check that the following actions have been taken:

Test the software according to the following checklists,

Checklist

Fault	Graphic	Remedy
No connection with sensor is available: Connection cannot be made		The sensor is not connected to the network. No power to the sensor. Enter the missing connection data.
Please input a password		Enter the password. The default setting does not require a password.
Wrong password input		Check that you have entered the correct password. Is the Caps Lock key pressed?

If none of the above remedies correct the problem, please contact the Service Center. Please have the fault message and version numbers of the software ready. The version number can be found under Help on the menu bar.

FACTORY AUTOMATION – SENSING YOUR NEEDS



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