

# OPERATION MANUAL

Version 2.1, 12/2008

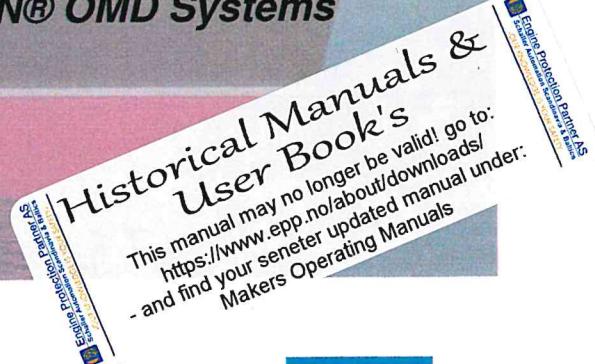


**VISATRON®**

**Remote Control ReCon DS23®**

**Remote Control Unit for VISATRON® OMD Systems**

Order-No. 11500



**SCHALLER**  
**AUTOMATION**



## About this Manual

This operation manual (Order-No. 15004) was designed to answer your questions concerning the handling, operation and maintenance of the remote control ReCon DS23®. It does not contain any details about repairs.

Should you encounter any interruptions or breakdowns during operation, please contact SCHALLER AUTOMATION Industrielle Automationstechnik GmbH & Co. KG. You can expect a safe and reliable operation of the remote control ReCon DS23® only when the device is operated in accordance with this operation manual.

Please note the following rules:

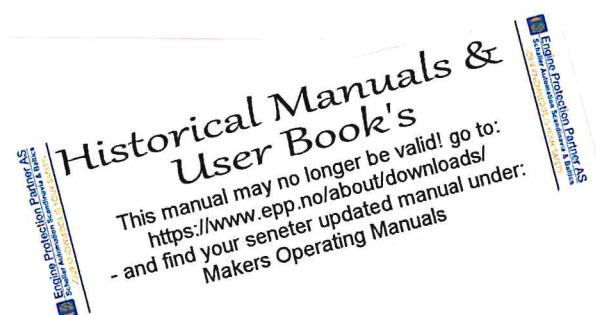
- This operation manual is valid only for the connection of the remote control ReCon DS23® to OMD VISATRON® devices series VN87plus.
- Please acquaint yourself with the operation manual.
- Read the operation manual carefully and take the given advice into account.
- Use the remote control ReCon DS23® only for the purpose described in the operation manual.
- Incorrect maintenance and handling errors may cause failures and accidents!
- The remote control ReCon DS23® may be used by authorised specialised staff only.
- This operation manual must be available at the place of installation at all times.

The manufacturer does not accept any guarantees resulting from improper handling or insufficient maintenance and service.

SCHALLER AUTOMATION Industrielle Automationstechnik GmbH & Co. KG precludes all guarantees for the case that incorrect device combinations are operated with devices not certified to be compatible or not admitted by the manufacturer.

## Conditions of Sale

The standard conditions of sale of SCHALLER AUTOMATION (current version) shall apply to all sales of VISATRON® and connected products to any of our customers.



## Safety instructions

The remote control ReCon DS23® is manufactured according to the high quality standard of SCHALLER AUTOMATION and passes the stringent factory tests. In order to keep the device in a smooth and problem free operation, the user has to take note of the safety hints and warnings. In the instruction manual and at the device they are marked with the following symbol.

## Used symbols



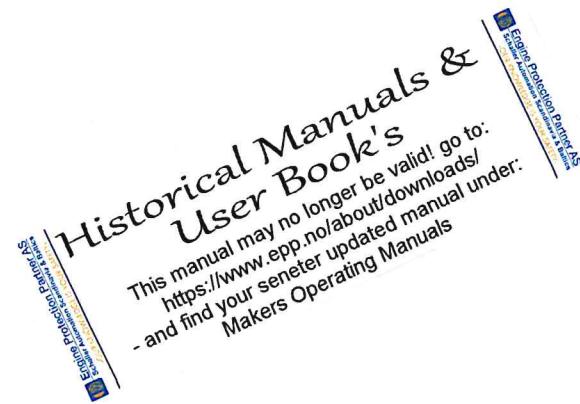
CAUTION! Do not ignore the warnings. The safety of persons can be imperilled or the device can be damaged.



WARNING! The marked text contains information.



The marked text contains only a hint for faster processing.



## **Declaration of Conformity**

**EMC-Directive : 89 / 336 / EEC**

We, the manufacturer

**SCHALLER AUTOMATION**  
Industrielle Automationstechnik GmbH & Co. KG  
Industriering 14  
D-66440 Blieskastel  
Tel.: 06842 / 508-0  
Fax: 06842 / 508-260

declare on our own responsibility, that the product :

Kind of equipment: **Remote Control**

Type-designation: **VISATRON® ReCon DS23®**

Order-No.: **11 500**

is in compliance with following norms :

**EN 61000-4-2**  
**EN 61000-4-3**  
**EN 61000-4-4**  
**EN 61000-4-5**  
**EN 61000-4-6**  
**CISPR 16-1**  
**CISPR 16-2**



D-66440 Blieskastel, 2008, the 21<sup>st</sup> of Sept.

Stephan Schaller  
-Managing Director-



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## 1 Introduction and functional overview

In combination with the Oil Mist Detection devices VISATRON® the newly developed remote control ReCon DS23® from SCHALLER AUTOMATION enables a user-friendly remote control of the Schaller safety system at large Diesel engines.

The system allows the safe remote monitoring of the oil mist concentration from outside the engine room, i.e. from the engine control room.

The device can be connected to VISATRON® devices series VN87plus.



Figure 1: Remote control ReCon DS23®

Not only is it possible to monitor the course of the relative opacity, but also to reset possibly arising alarms, to save short-term and long-term measurement value progresses and to display and document these values subsequently.

SCHALLER AUTOMATION developed this device to meet the requirements of IACS which will be valid from January 2006.

Thus, the remote control ReCon DS23® is a further contribution to secure shipping traffic. Our goal is to avert lasting damage to real assets, the environment and individuals.

Cyclical measurement values and events from the connected VISATRON® devices are sent, via the bus, to the remote control ReCon DS23® and stored.



## 2 Functional description

In this chapter you will find:

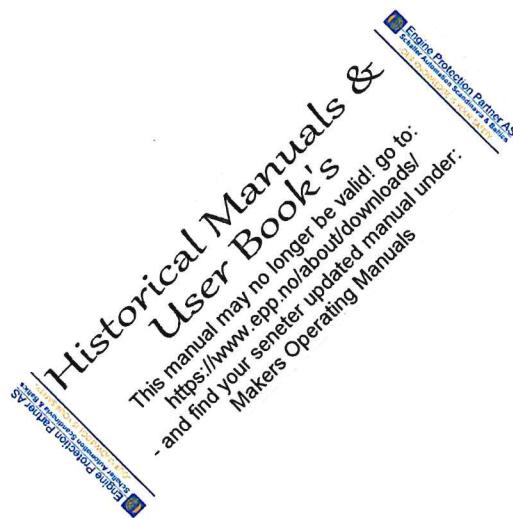
- instructions for operating the touch panel;
- carrying out an alarm reset;
- descriptions of the screen masks of the application;
- the functions of the buttons;
- and respective action guidelines.

### 2.1 Operating the touch panel

The remote control ReCon DS23® is operated via a touch panel. The touch panel is a viewing and operating unit for controlling the remote control, calling up functions and retrieving different scenarios.

Touch the touch panel **with your fingers only!** Do not use any sharp objects, such as tools, pens, etc.

Clean the surface of the touch panel regularly with a **soft and dry cloth**.



## 2.2 Carrying out an alarm reset

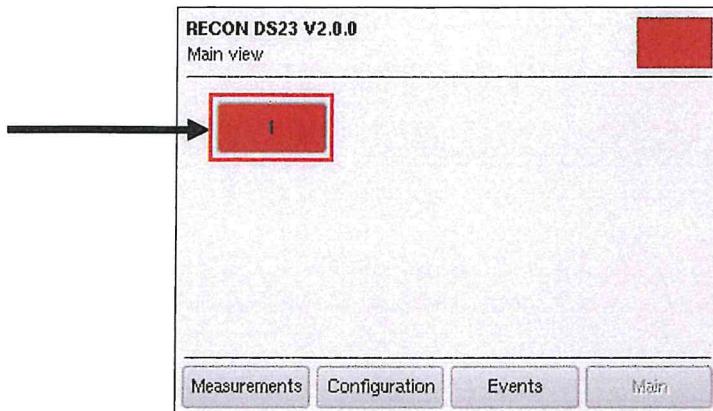


**CAUTION!** Do not carry out an alarm reset before assuring the actual oil mist concentration to be below the alarm threshold.

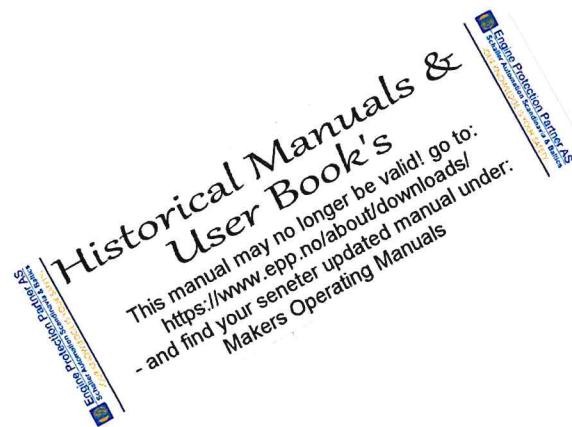
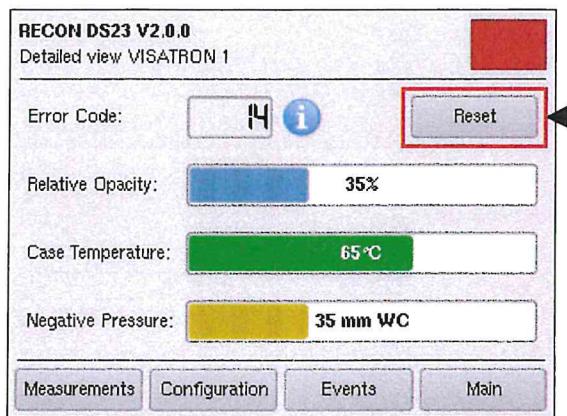


Attend the instructions of the engine builder.

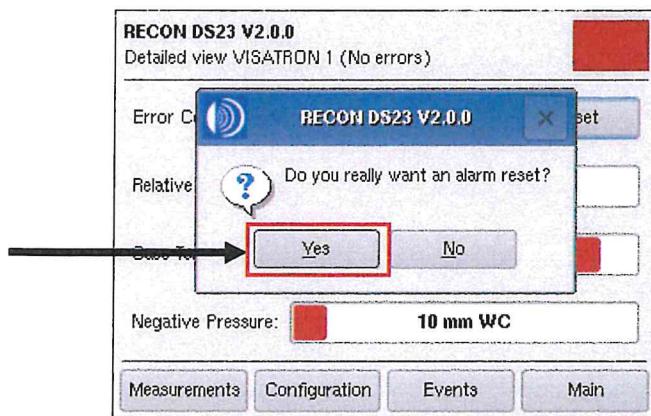
- In the main view, push the red-colored button of the VISATRON® device for which you wish to carry out an alarm-reset.



- In the detailed view, push the button "Reset" to initiate the alarm-reset.



- In the dialog box, push the button "Yes" to confirm the alarm-reset.



- The transaction is recorded in the event storage.

	Event	ID	Date	Pa
6	INIT		18.07.2008 13:42:56	
7	ALARMRESET	01	18.07.2008 10:02:03	
8	ALARM	01	18.07.2008 10:01:46	
9	INIT		18.07.2008 10:01:14	

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## 2.3 Menu structure

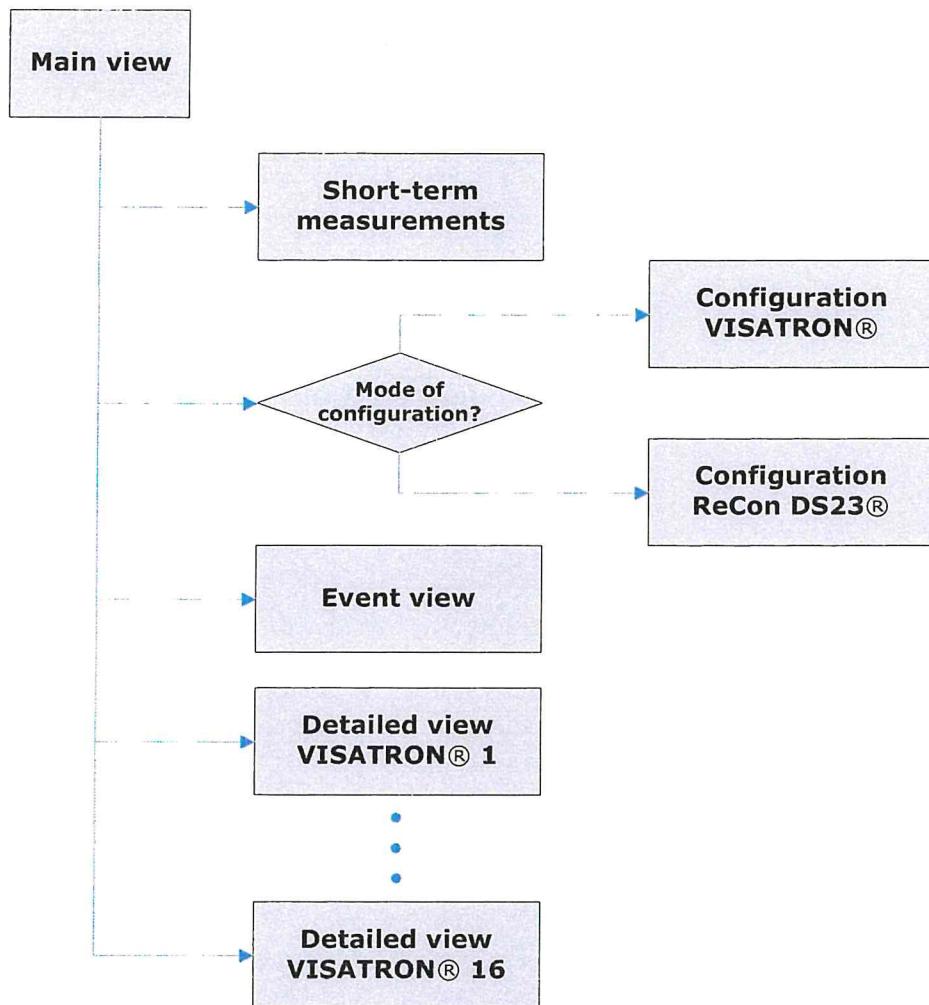
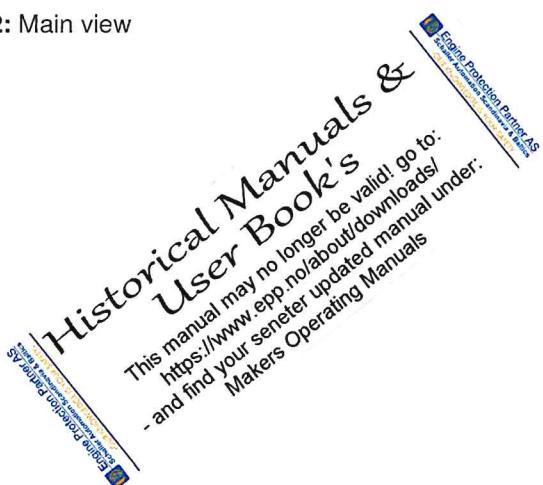


Figure 2: Main view



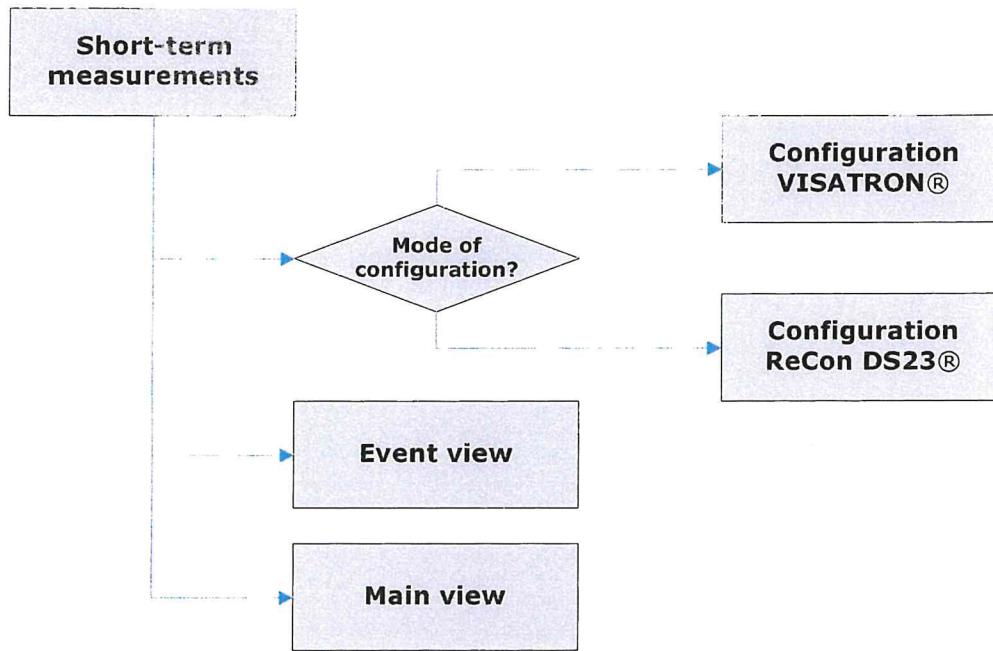


Figure 3: Short-term measurements

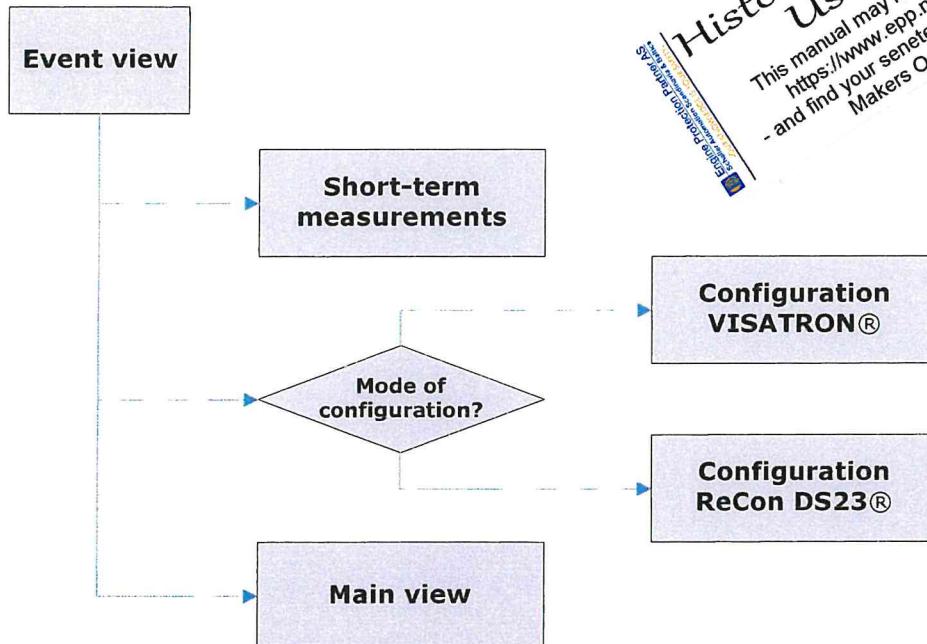


Figure 4: Event view

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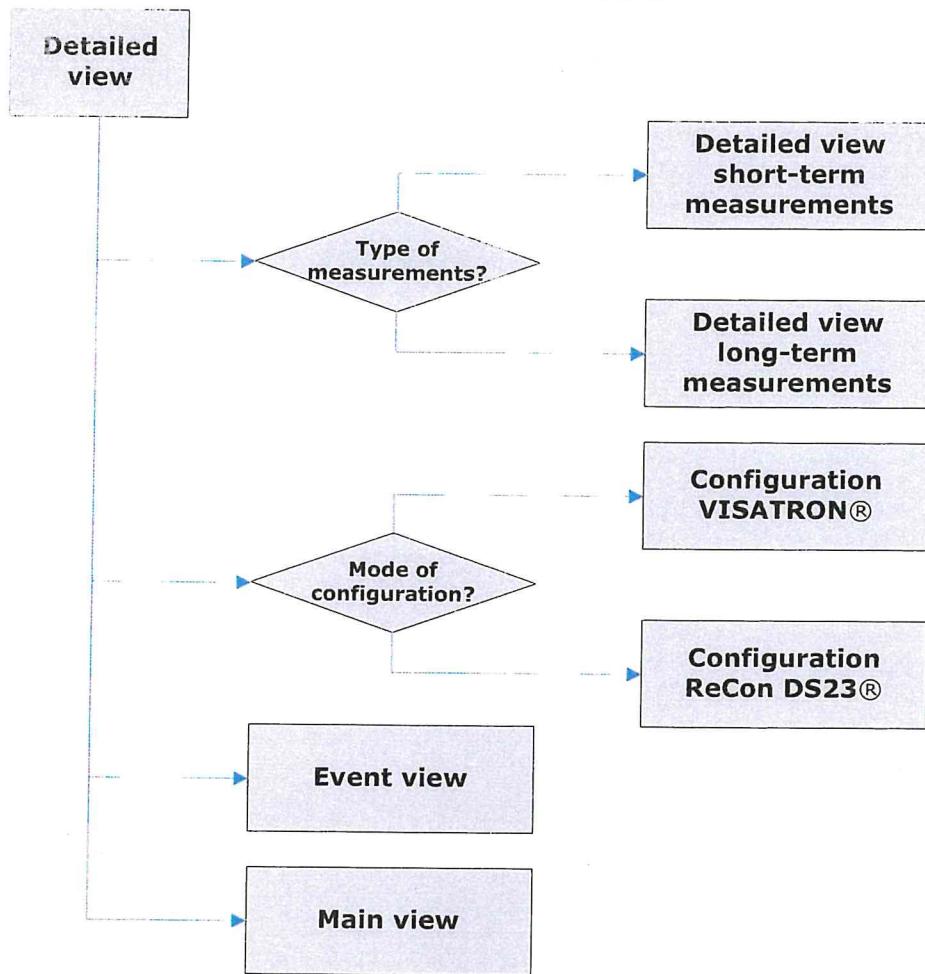
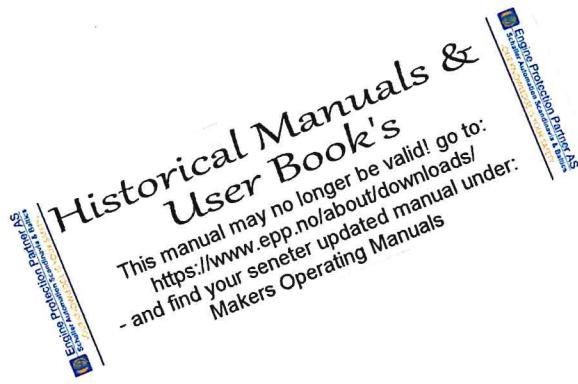


Figure 5: Detailed view



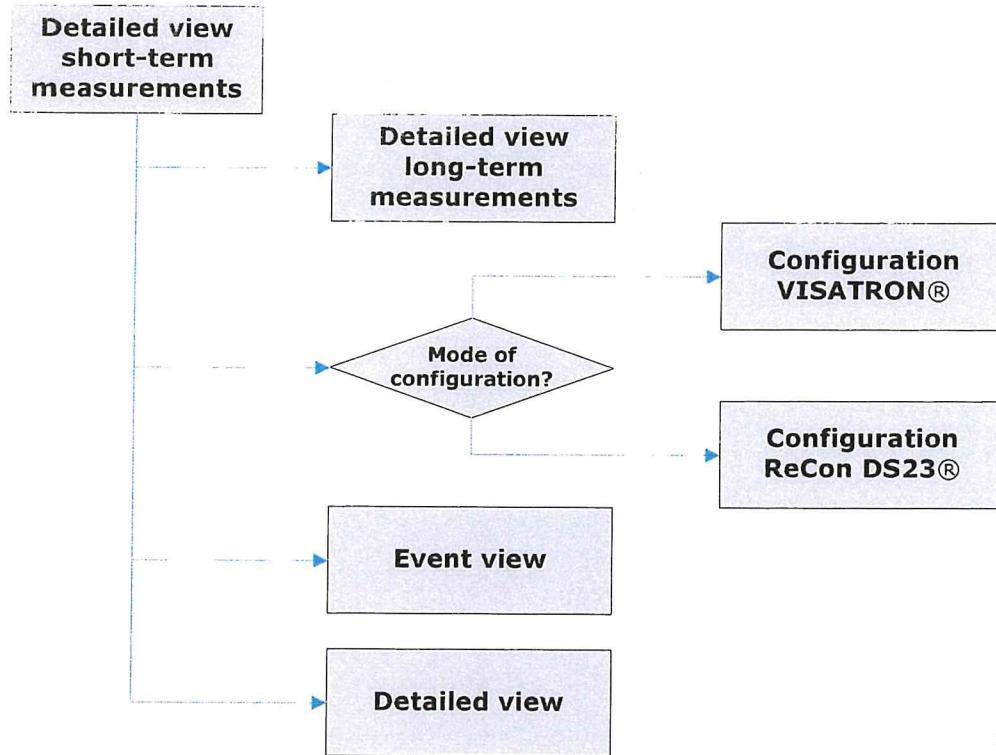


Figure 6: Detailed view short-term measurements

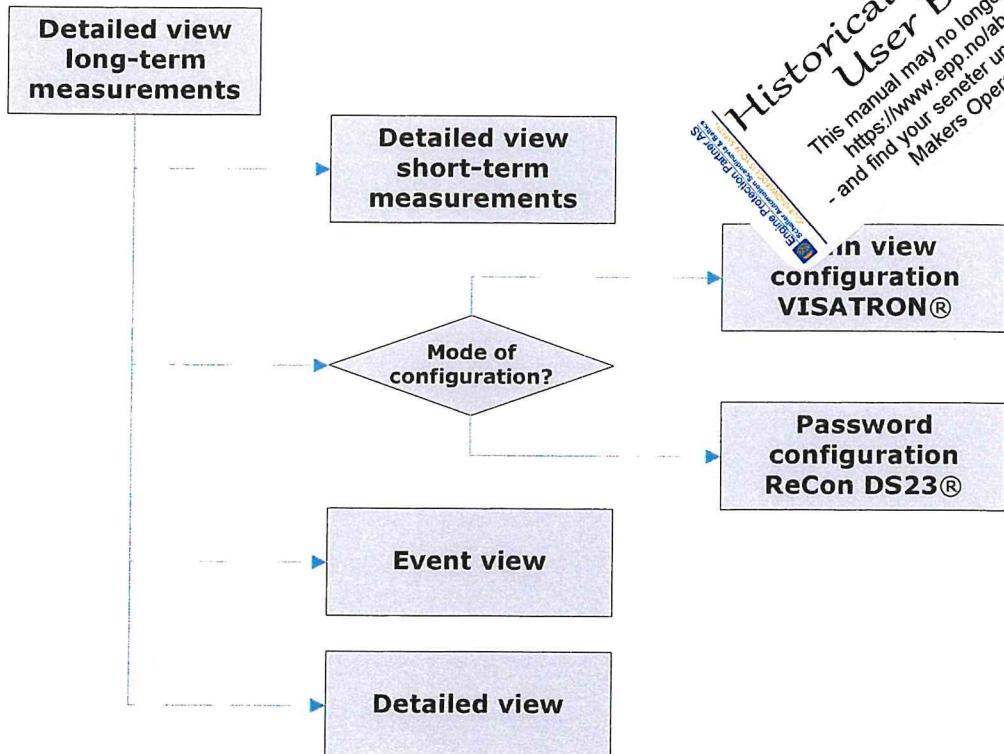


Figure 7: Detailed view long-term measurements



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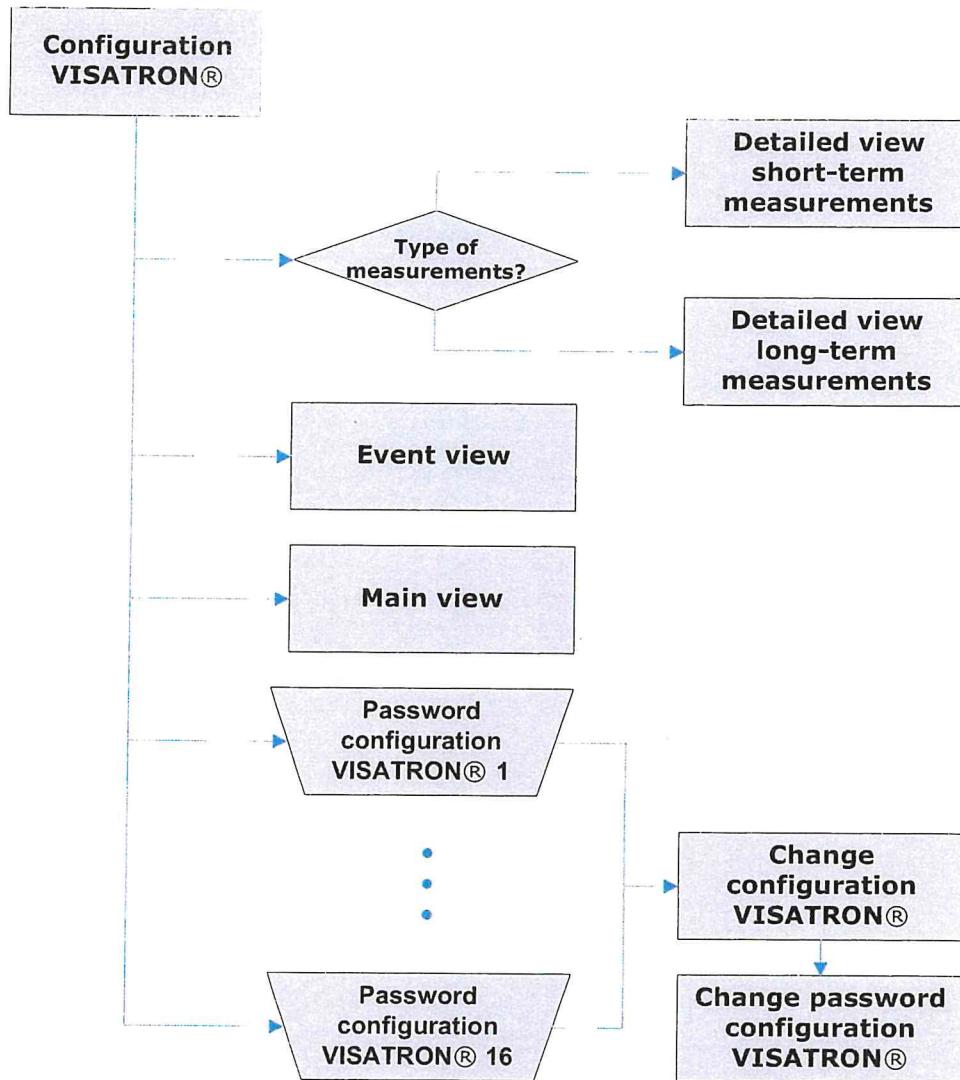
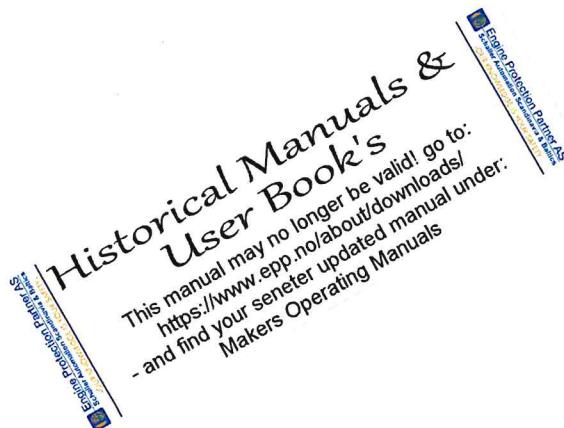


Figure 8: Configuration VISATRON®



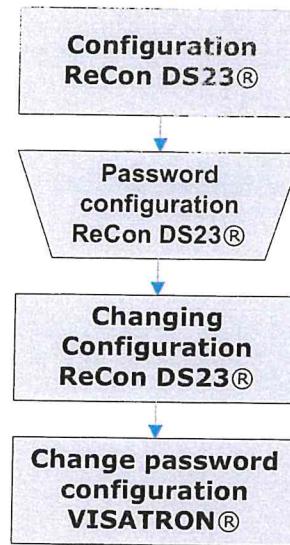
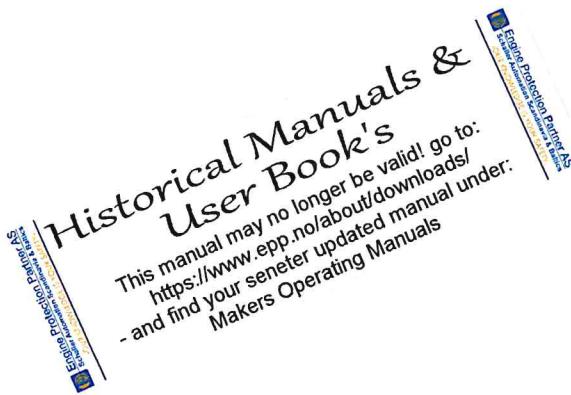


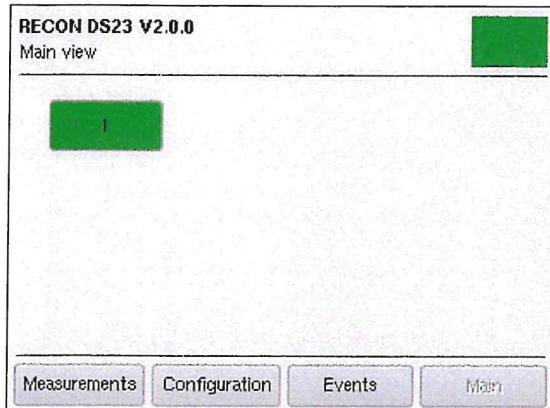
Figure 9: Configuration ReCon DS23®



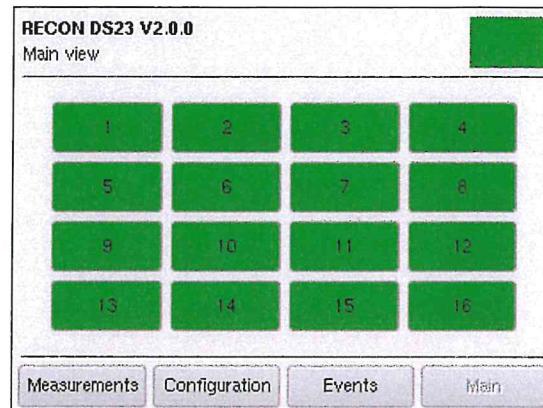
## 2.4 Descriptions of the screen masks

### 2.4.1 Main view

Visualizing the VISATRON® devices connected to the remote control ReCon DS23®.



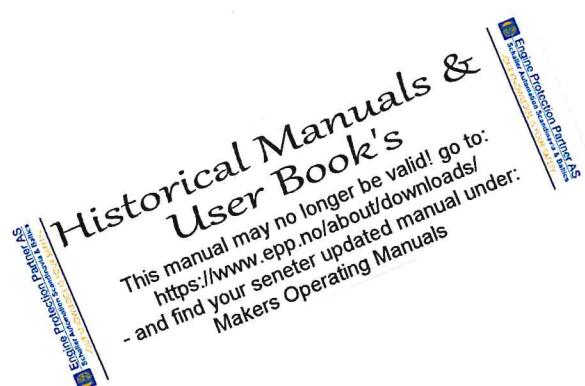
**Figure 10:**  
Main view - one VISATRON® device.



**Figure 11:**  
Main view - sixteen VISATRON® devices.



**Figure 12:**  
Main view - No VISATRON® devices.



## Title bar

**Product name (upper left): "RECON DS23 V2.0.0"**

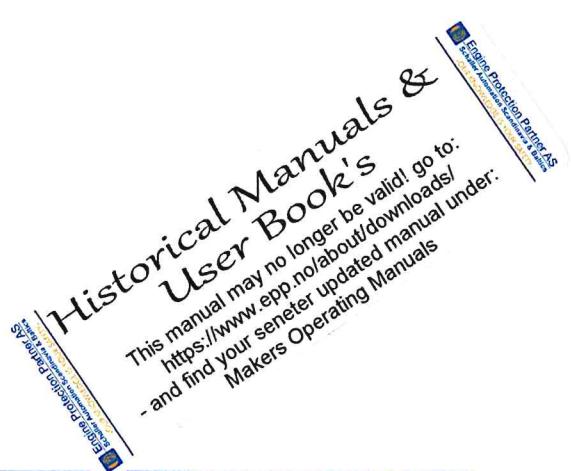
**View (lower left):**

<b>RECON DS23 V2.0.0</b> Main view		No errors occurred in the course of the initialization.
<b>RECON DS23 V2.0.0</b> Main view -> No devices have been found.		In the course of the initialization, none of the VISATRON® devices connected to the remote control ReCon DS23® responded to the master requests.
<b>RECON DS23 V2.0.0</b> Main view -> No event recording.		Due to a damaged file system, a recording of events is disabled.
<b>RECON DS23 V2.0.0</b> Main view -> No measurement recording.		Due to a damaged file system, a recording of measurement values is disabled.
<b>RECON DS23 V2.0.0</b> Main view -> No event and measurement recording.		Due to a damaged file system, a recording of events as well as measurement values is disabled.

## Status field (upper right):

The coloring of the status field represents the global state of the VISATRON® devices connected to the remote control ReCon DS23®.

Status Field Color	Global state
	No response
	Ready
	Pre-alarm
	Alarm
	Error ( <u>highest priority!</u> )



## Main window

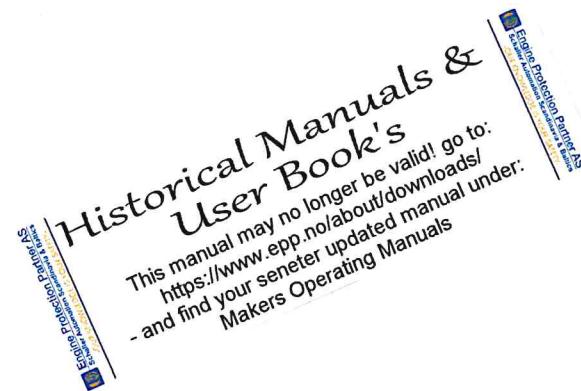
- Up to sixteen buttons each representing a VISATRON® device connected to the remote control ReCon DS23®:

Button	Function
	Calling up the detailed view of the VISATRON® device with device address "1" (see chapter 2.4.2 for further information).
...	...
	Calling up the detailed view of the VISATRON® device with device address "16" (see chapter 2.4.2 for further information).
	Calling up a dialog box to carry out a restart of the remote control ReCon DS23® (see chapter 2.4.14 for further instructions).

- The button coloring corresponds to the state of the connected VISATRON® device:

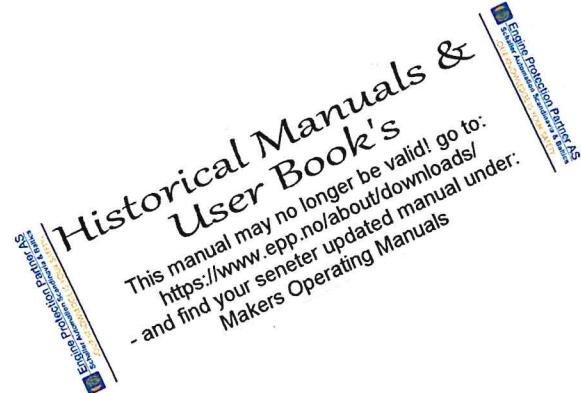
Button color	State of the VISATRON® device
	No response
	Ready
	Pre-alarm
	Alarm
	Error (highest priority!)

- The button labelling corresponds to the device address of the connected VISATRON® device.



## Footer

Button	Function
Measurements	Calling up the view "Short-term measurements (general view)" showing the progress of the short-term measurement values of each VISATRON® device connected to the remote control ReCon DS23® (see chapter 2.4.5 for further information).
Configuration	Calling up a dialog box for selecting the configuration mode (see chapter 2.4.14 for further information).
Events	Calling up the event view showing the contents of the event storage (see chapter 2.4.13 for further information).
Main	Function not available.



## 2.4.2 Detailed view of a VISATRON® device

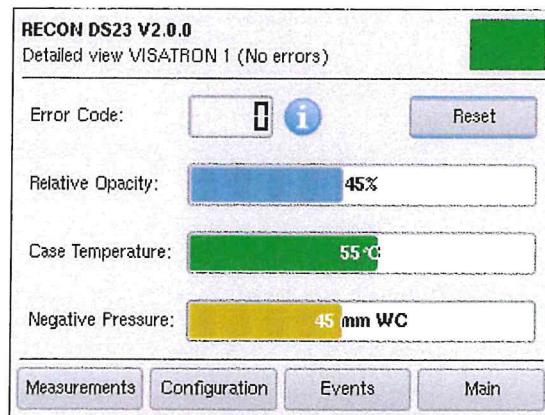


Figure 13: Detailed view.

### Title bar

**Product name (upper left):** "RECON DS23 V2.0."

### View (lower left):

<b>RECON DS23 V2.0.0</b> Detailed view VISATRON 1 (No errors)		The VISATRON® device is not in an error state.
<b>RECON DS23 V2.0.0</b> Detailed view VISATRON 1		The VISATRON® device is in an error state.
<b>RECON DS23 V2.0.0</b> Detailed view VISATRON 1 (Connection lost)		The connection to the VISATRON® device is interrupted.

### Status field (upper right):

The coloring of the status field represents the global state of the VISATRON® devices connected to the remote control ReCon DS23®.

Status Field Color	Global state
	No response
	Ready
	Pre-alarm
	Alarm
	Error ( <u>highest priority!</u> )



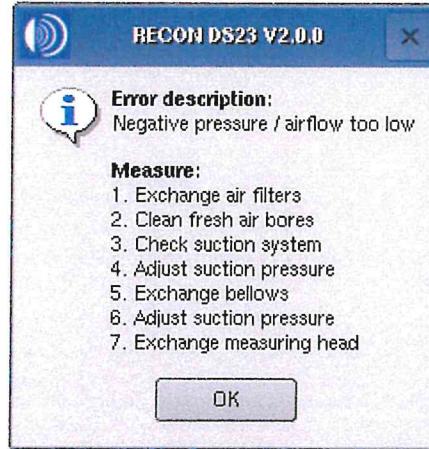
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**Main window**

Display	Function
Error Code: 	Displays the error code of the VISATRON® device.
Relative Opacity: 	Displays the relative opacity on a scale from 0% to 100% of the VISATRON® device.
Case Temperature: 	Displays the case temperature on a scale from 0°C to 100°C of the VISATRON® device.
Negative Pressure: 	Displays the negative pressure on a scale from 0 mm WC to 100 mm WC of the VISATRON® device.

Button	Function
	Carrying out an alarm reset for the VISATRON® device (see chapter 2.2 for further instructions).
	Calling up a dialog box containing a description of the error code as well as instructions to fix the error.

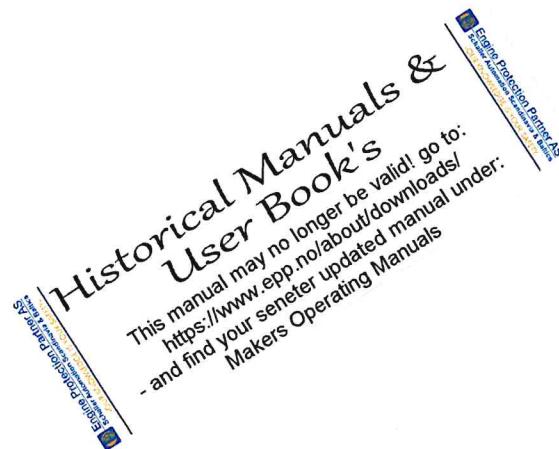


**Figure 14:**  
The contents of the dialog box for error code "14".



## Footer

Button	Function
Measurements	Calling up the dialog box for selecting the measurement type (see chapter 2.4.16 for further information).
Configuration	Calling up a dialog box for selecting the configuration mode (see chapter 2.4.14 for further information).
Events	Calling up the event view showing the contents of the event storage (see chapter 2.4.13 for further information).
Main	Calling up the main view showing the VISATRON® devices connected to the remote control ReCon DS23® (see chapter 2.4.1 for further information).



### 2.4.3 Detailed view - progress of the short-term measurement values

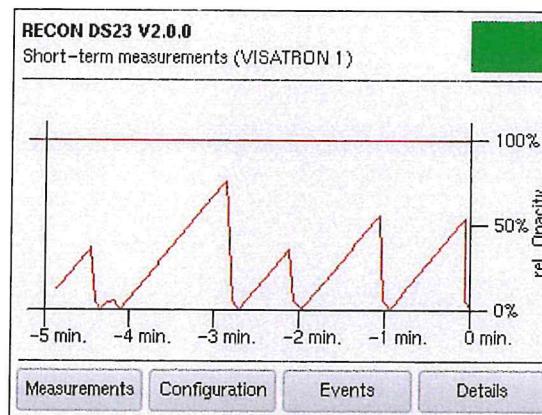


Figure 15: Progress of the short-term measurement values.

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#### Title bar

**Product name (upper left):** "RECON DS23 V2.0.0"

**View (lower left):**

"Short-term measurements (VISATRON <device address>)"

**Status field (upper right):**

The coloring of the status field represents the global state of the VISATRON® devices connected to the remote control ReCon DS23®.

Status Field Color	Global state
	No response
	Ready
	Pre-alarm
	Alarm
	Error ( <u>highest priority!</u> )

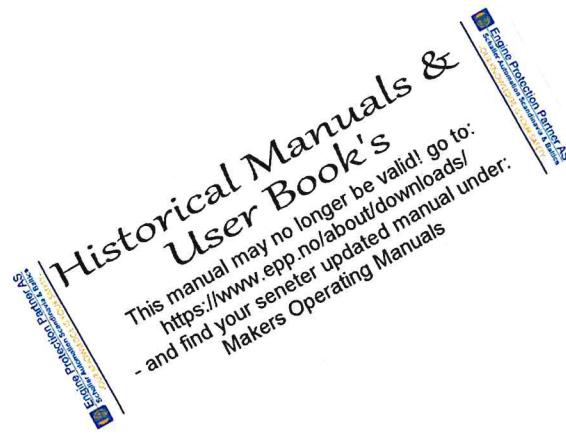
#### Main window

The diagram displays the progress of the relative opacity of the connected VISATRON® device in percent over the last five minutes. One hundred percent corresponds to the opacity value of the main-alarm threshold. Values larger than one hundred percent are not displayed.



## Footer

Button	Function
Measurements	Calling up the view of the long-term measurement values of the VISATRON® device (see chapter 2.4.4 for further information).
Configuration	Calling up a dialog box for selecting the configuration mode (see chapter 2.4.14 for further information).
Events	Calling up the event view showing the contents of the event storage (see chapter 2.4.13 for further information).
Details	Calling up the detailed view of the VISATRON® device (see chapter 2.4.2 for further information).



## 2.4.4 Detailed view - progress of the long-term measurement values

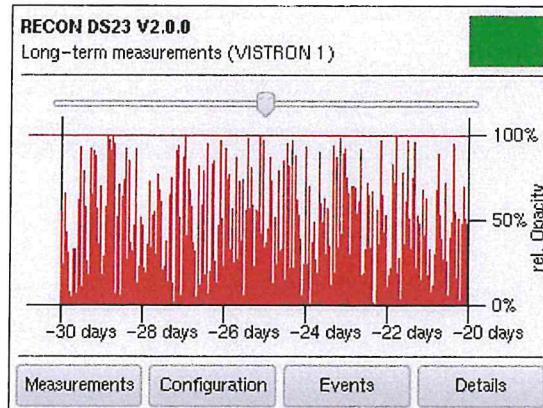


Figure 16: Progress of the long-term measurement values.

### Title bar

**Product name (upper left):** "RECON DS23 V2.0.0"

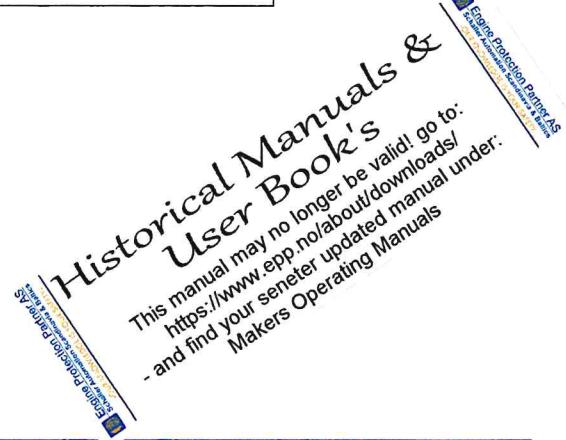
**View (lower left):**

"Long-term measurements (VISATRON <device address>)"

**Status field (upper right):**

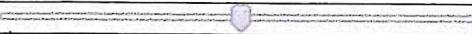
The coloring of the status field represents the global state of the VISATRON® devices connected to the remote control ReCon DS23®.

Status Field Color	Global state
	No response
	Ready
	Pre-alarm
	Alarm
	Error (highest priority!)



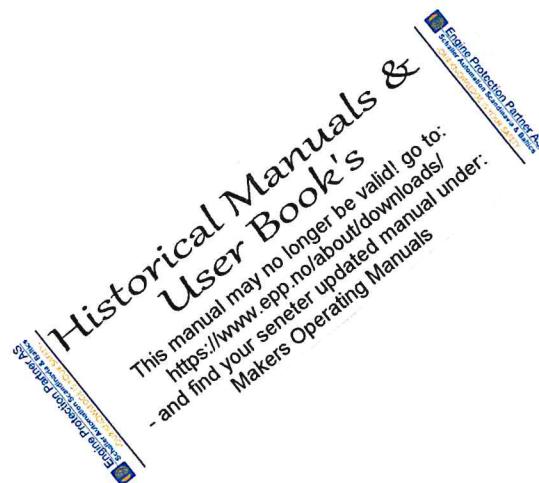
## Main window

The diagram displays the progress of the relative opacity of the connected VISATRON® device in percent over the last twelve months. One hundred percent corresponds to the opacity value of the main-alarm threshold. Values larger than one hundred percent are not displayed.

Slider	Function
	Navigating through the progress of the long-term measurement values. The step width is ten days.

## Footer

Button	Function
Measurements	Calling up the view of the short-term measurement values of the VISATRON® device (see chapter 2.4.3 for further information).
Configuration	Calling up a dialog box for selecting the configuration mode (see chapter 2.4.14 for further information).
Events	Calling up the event view showing the contents of the event storage (see chapter 2.4.13 for further information).
Details	Calling up the detailed view of the VISATRON® device (see chapter 2.4.2 for further information).



## 2.4.5 Progress of the short-term measurement values

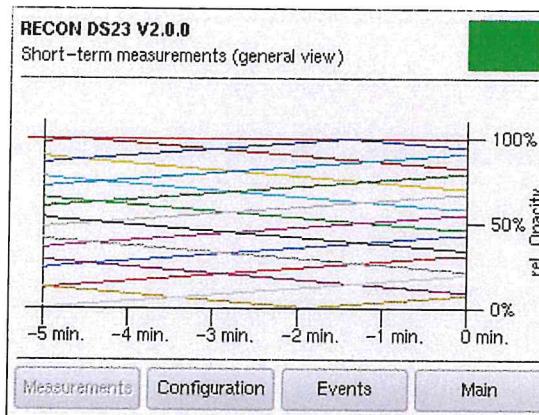


Figure 17: Progress of the short-term measurement values.

### Title bar

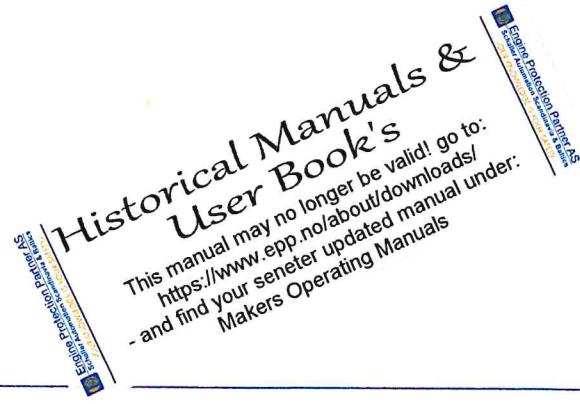
**Product name (upper left):** "RECON DS23 V2.0.0"

**View (lower left):** "Short-term measurements (general view)"

### Status field (upper right):

The coloring of the status field represents the global state of the VISATRON® devices connected to the remote control ReCon DS23®.

Status Field Color	Global state
White	No response
Green	Ready
Yellow	Pre-alarm
Red	Alarm
Red, Yellow, ...	Error ( <u>highest priority!</u> )

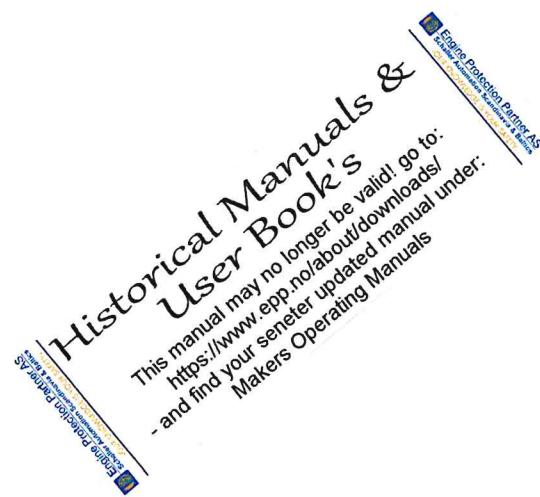


## Main window

The diagram displays the relative opacity of the connected VISATRON® devices in percent over the last five minutes. One hundred percent corresponds to the opacity value of the main-alarm threshold. Values larger than one hundred percent are not displayed.

## Footer

Button	Function
Measurements	Function not available.
Configuration	Calling up a dialog box for selecting the configuration mode (see chapter 2.4.14 for further information).
Events	Calling up the event view showing the contents of the event storage (see chapter 2.4.13 for further information).
Main	Calling up the main view visualizing the VISATRON® devices connected to the remote control ReCon DS23® (see chapter 2.4.1 for further information).



## 2.4.6 Configuration of the VISATRON® devices

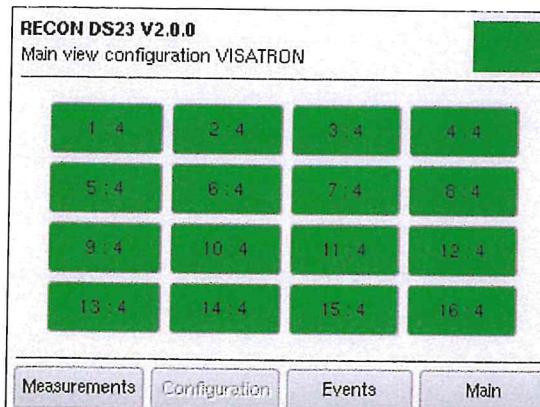


Figure 18: Main-alarm thresholds.

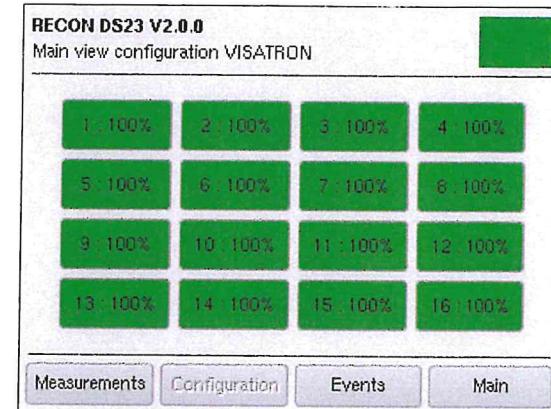


Figure 19: Pre-alarm thresholds.

### Title bar

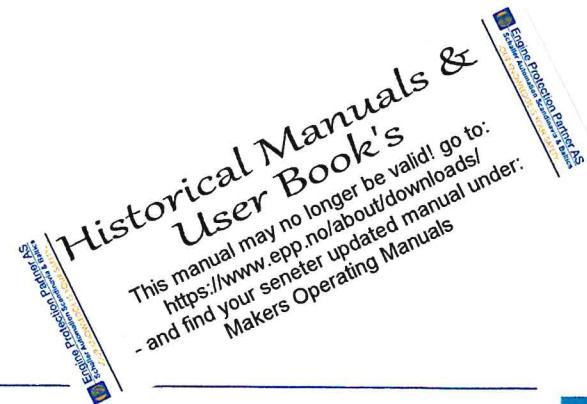
**Product name (upper left):** "RECON DS23 V2.0.0"

**View (lower left):** "Main view configuration VISATRON"

**Status field (upper right):**

The coloring of the status field represents the global state of the VISATRON® devices connected to the remote control ReCon DS23®.

Status Field Color	Global state
	No response
	Ready
	Pre-alarm
	Alarm
	Error (highest priority!)



## Main window

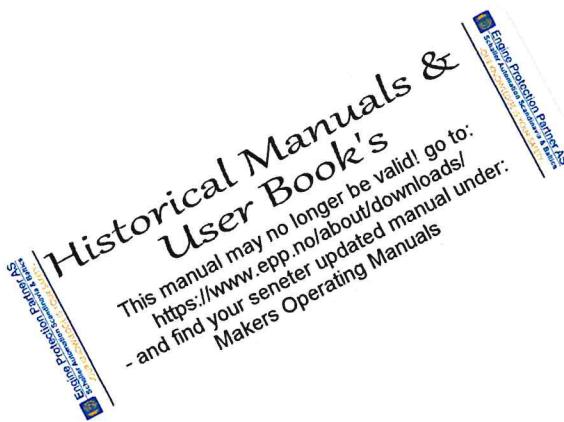
- Up to sixteen buttons each representing a VISATRON® device connected to the remote control ReCon DS23®:

Button	Function
	Calling up the view "Password for configuring VISATRON 1" (see chapter 2.4.7 for further information).
...	...
	Calling up the view "Password for configuring VISATRON 16" (see chapter 2.4.7 for further information).

- The button coloring corresponds to the state of the connected VISATRON® device:

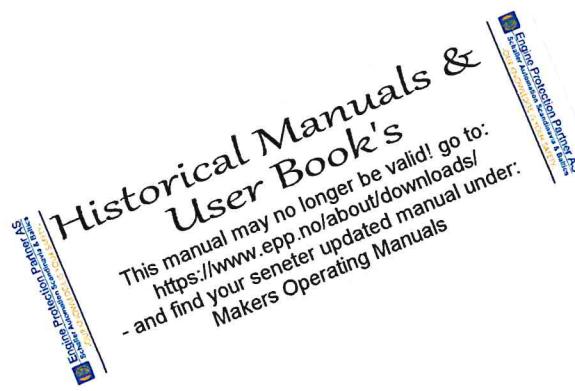
Button color	State of the VISATRON® device
	No response
	Ready
	Pre-alarm
	Alarm
	Error ( <u>highest priority!</u> )

- The button labelling corresponds to the device address of the connected VISATRON® device on the left side of the colon. The alternating values on the right side of the colon correspond to the main-alarm threshold and the pre-alarm threshold in percent of the main-alarm.



## Footer

Button	Function
Measurements	Calling up the view "Short-term measurements (general view)" showing the progress of short-term measurement values of the VISATRON® devices connected to the remote control ReCon DS23® (see chapter 2.4.5 for further information).
Configuration	Function not available.
Events	Calling up the event view showing the contents of the event storage (see chapter 2.4.13 for further information).
Main	Calling up the main view showing the VISATRON® devices connected to the remote control ReCon DS23® (see chapter 2.4.1 for further information).



### 2.4.7 Entering the password of the VISATRON® configuration

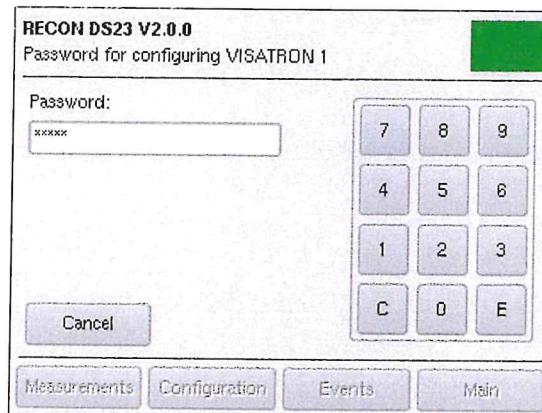


Figure 20: Access control.

**Factory setting of the password: '00000'.**



To prevent malpractice change the password as fast as possible.

#### Title bar

**Product name (upper left):** "RECON DS23 V2.0.0"

**View (lower left):** "Password for configuring VISATRON <device address>"

#### Status field (upper right):

The coloring of the status field represents the global state of the VISATRON® devices connected to the remote control ReCon DS23®.

Status Field Color	Global state
	No response
	Ready
	Pre-alarm
	Alarm
	Error (highest priority!)

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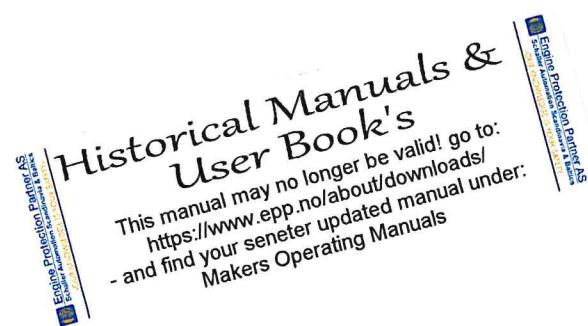
## Main window

Input box	Function
Password: *****	The input box contains the password (five digits) which will be displayed as asterisks instead of the numbers actually entered.

Button	Function
0 , ..., 9	Entering the numbers from "0" to "9" into the input box.
C	Clearing the contents of the input box.
E	Terminating the password entry and calling up the view for modifying the configuration of the selected VISATRON® device (see chapter 2.4.8 for further information).
Cancel	Cancelled the password entry and calling up the view "Main view configuration VISATRON®" (see chapter 2.4.6 for further information).

## Footer

Button	Function
Measurements	Function not available.
Configuration	Function not available.
Events	Function not available.
Main	Function not available.



### 2.4.8 Changing the configuration of a VISATRON® device

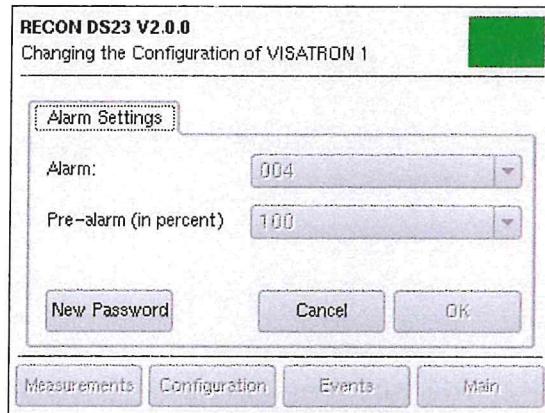


Figure 21: "Alarm settings".



The function is not available for the OMD VISATRON® devices series VN87plus.

#### Title bar

**Product name (upper left):** "RECON DS23 V2.0.0"

**View (lower left):**

"Changing the configuration of VISATRON <device address>"

**Status field (upper right):**

The coloring of the status field represents the global state of the VISATRON® devices connected to the remote control ReCon DS23®.

Status Field Color	Global state
	No response
	Ready
	Pre-alarm
	Alarm
	Error (highest priority!)

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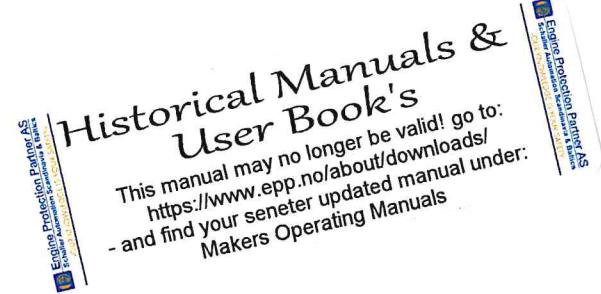
## Main window

Combo box	Function
Alarm: <input type="text" value="004"/>	Specifying the main-alarm threshold on a scale from 1 to 10.
Pre-alarm (in percent) <input type="text" value="100"/>	Specifying the pre-alarm threshold in percent of the main-alarm from 0% to 100%.

Button	Function
New Password	Calling up the view for changing the password of the VISATRON® configuration (see chapter 2.4.9 for further information).
OK	Terminating the modification of the configuration of the VISATRON® device and calling up the view "Main view configuration VISATRON" (see chapter 2.4.6 for further information).
Cancel	Cancelling the modification of the configuration of the VISATRON® device and calling up the view "Main view configuration VISATRON" (see chapter 2.4.6 for further information).

## Footer

Button	Function
Measurements	Function not available.
Configuration	Function not available.
Events	Function not available.
Main	Function not available.



## 2.4.9 Changing the password of the VISATRON® configuration



Figure 22: Setting a new password.

### Title bar

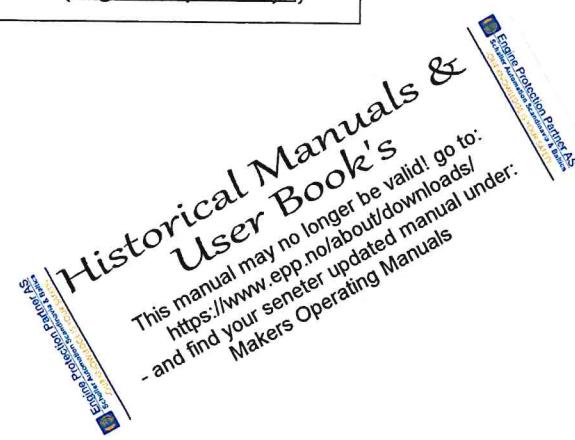
**Product name (upper left):** "RECON DS23 V2.0.0"

**View (lower left):** "Changing password for VISATRON configuration"

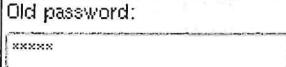
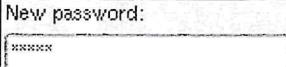
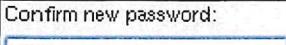
### Status field (upper right):

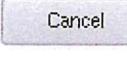
The coloring of the status field represents the global state of the VISATRON® devices connected to the remote control ReCon DS23®.

Status Field Color	Global state
	No response
	Ready
	Pre-alarm
	Alarm
	Error ( <u>highest priority!</u> )

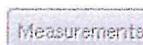
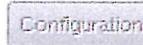
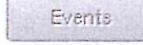
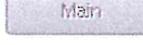


## Main window

Input box	Function
Old password: 	The input box contains the old password (five digits) which will be displayed as asterisks instead of the numbers actually entered.
New password: 	The input box contains the new password (five digits) which will be displayed as asterisks instead of the numbers actually entered.
Confirm new password: 	The input box contains the new password (five digits) for confirmation which will be displayed as asterisks instead of the numbers actually entered.

Button	Function
	Entering the numbers from "0" to "9" into the input box.
	Clearing the contents of the input box.
	Terminating the password entry and calling up the view for modifying the configuration of the VISATRON® device (see chapter 2.4.8 for further information).
	Cancelling the password entry and calling up the view for modifying the configuration of the VISATRON® device (see chapter 2.4.8 for further information).

## Footer

Button	Function
	Function not available.
	Function not available.
	Function not available.
	Function not available.



## 2.4.10 Entering the password of the ReCon DS23® configuration

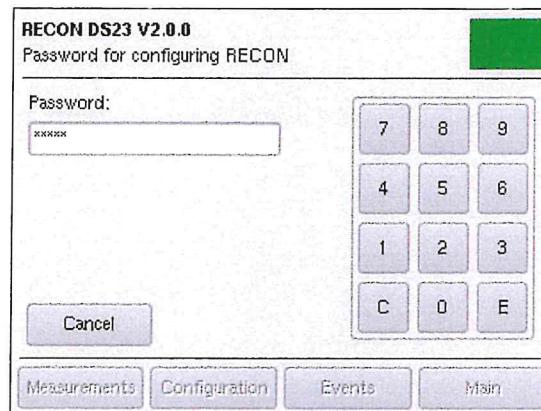


Figure 23: Access control.

**Factory setting of the password: '00000'.**



To prevent malpractice change the password as fast as possible.

### Title bar

**Product name (upper left):** "RECON DS23 V2.0.0"

**View (lower left):** "Password for configuring Recon"

### Status field (upper right):

The coloring of the status field represents the global state of the VISATRON® devices connected to the remote control ReCon DS23®.

Status Field Color	Global state
	No response
	Ready
	Pre-alarm
	Alarm
	Error (highest priority!)



## Main window

Input box	Function
Password: 	The input box contains the password (five digits) which will be displayed as asterisks instead of the numbers actually entered.

Button	Function
	Entering the numbers from "0" to "9" into the input box.
	Clearing the contents of the input box.
	Terminating the password entry and calling up the view for modifying the configuration of the remote control ReCon DS23® (see chapter 2.4.11 for further information).
	Cancelling the password entry and calling up the main view (see chapter 2.4.1 for further information).

## Footer

Button	Function
	Function not available.



## 2.4.11 Changing the configuration of the remote control ReCon DS23®

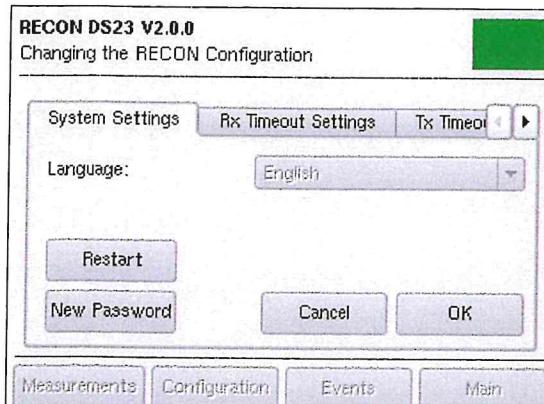


Figure 24: "System settings"

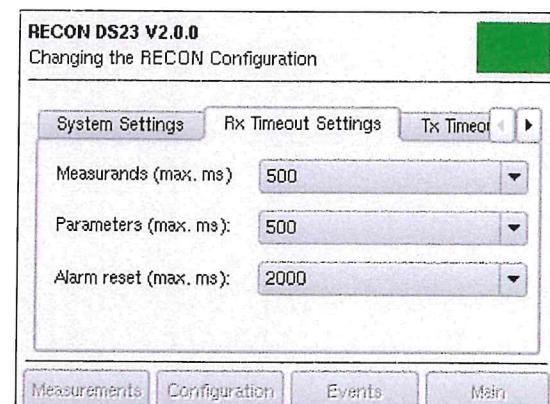


Figure 25: "Rx timeout settings"

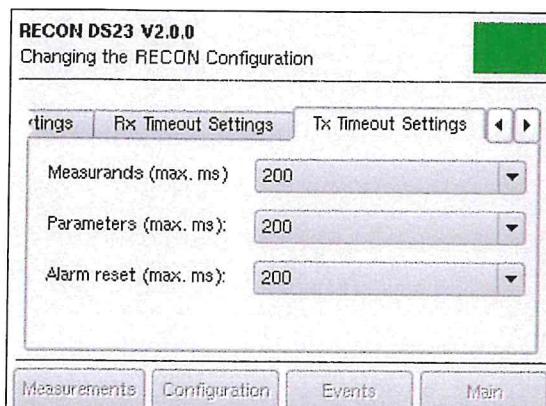


Figure 26: "Tx timeout settings"

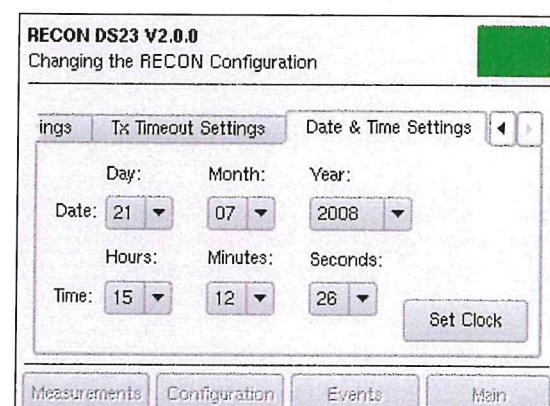


Figure 27: "Date & time settings"



## Title bar

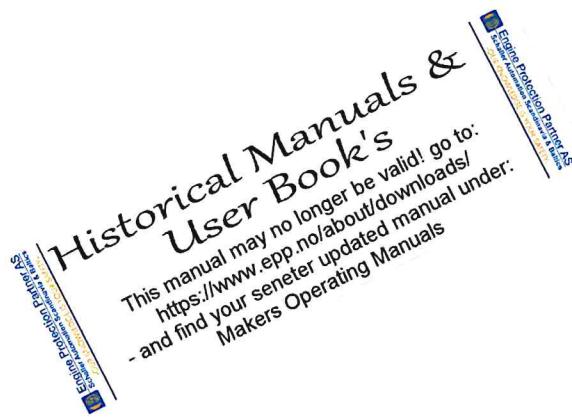
**Product name (upper left):** "RECON DS23 V2.0.0"

**View (lower left):** "Changing the RECON Configuration"

**Status field (upper right):**

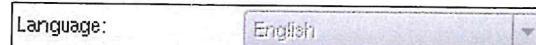
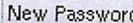
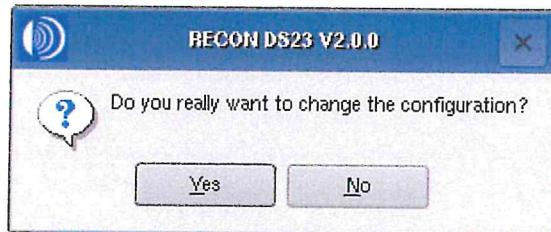
The coloring of the status field represents the global state of the VISATRON® devices connected to the remote control ReCon DS23®.

Status Field Color	Global state
	No response
	Ready
	Pre-alarm
	Alarm
	Error ( <u>highest priority!</u> )



## Main window

- Tab "System Setting"

Combo box	Function
	Specifying the language of the user interface. Available languages are English, French, German, Chinese, Japanese and Korean. Default setting: English
Button	Function
	Calling up a dialog box to carry out a restart of the remote control ReCon DS23® (see chapter 2.4.14 for further instructions).
	Calling up the view for changing the password for the remote control ReCon DS23® configuration (see chapter 2.4.12 for further information).
	Terminating the modification of the ReCon DS23® configuration and calling up the dialog box:  
Button	Function
	Applying the modifications made to the configuration of the ReCon DS23® and calling up the main view (see chapter 2.4.1 for further information).
	Discarding the modifications made to the configuration of the ReCon DS23® and calling up the view "Changing the RECON Configuration".
	Cancelling the modification made to the ReCon DS23® configuration and calling up the main view (see chapter 2.4.1 for further information).

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- Tab "Rx Timeout Settings"

Combo box	Function
Measurands (max. ms): <input type="text" value="500"/>	Specifying the maximum timeout for receiving a response to the master request "Receive measurement values". Available values are 100, 200, 300, 400, 500, 600, 700 milliseconds. Default value: 500
Parameters (max. ms): <input type="text" value="500"/>	Specifying the maximum timeout for receiving a response to the master request "Set parameter". Available values are 100, 200, 300, 400, 500, 600, 700 milliseconds. Default value: 500
Alarm reset (max. ms): <input type="text" value="2000"/>	Specifying the maximum timeout for receiving a response to the master request "Carry out a reset". Available values are 100, 200, 300, 400, 500, 750, 1000, 2000, 5000 milliseconds. Default value: 2000

- Tab "Tx Timeout Settings"

Combo box	Function
Measurands (max. ms) <input type="text" value="200"/>	Specifying the maximum waiting time before transmitting the master request "Receive measurement values". Available values are 50, 100, 150, 200, 250, 300, 350 milliseconds. Default value: 200
Parameters (max. ms) <input type="text" value="200"/>	Specifying the maximum waiting time before transmitting the master request "Set parameter". Available values are 50, 100, 150, 200, 250, 300, 350 milliseconds. Default value: 200
Alarm reset (max. ms) <input type="text" value="200"/>	Specifying the maximum waiting time before transmitting the master request "Carry out a reset". Available values are 50, 100, 150, 200, 250, 300, 350 milliseconds. Default value: 200

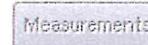
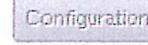
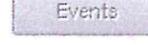
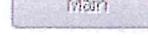


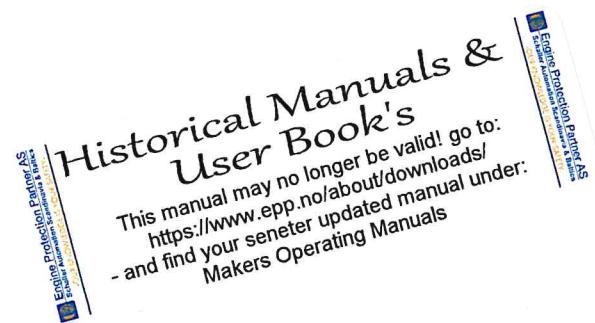
- Tab "Date & Time Settings"

Combo box	Function
Day: 	Specify the day of month.
Month: 	Specify the month.
Year: 	Specify the year.
Hours: 	Specify the hours.
Minutes: 	Specify the minutes.
Seconds: 	Specify the seconds.

Button	Function
	Applying the modification made to system time and date and calling up the tab "System Settings".

### Footer

Button	Function
	Function not available.
	Function not available.
	Function not available.
	Function not available.



## 2.4.12 Changing the password of the ReCon DS23® configuration



Figure 28: Setting a new password.

### Title bar

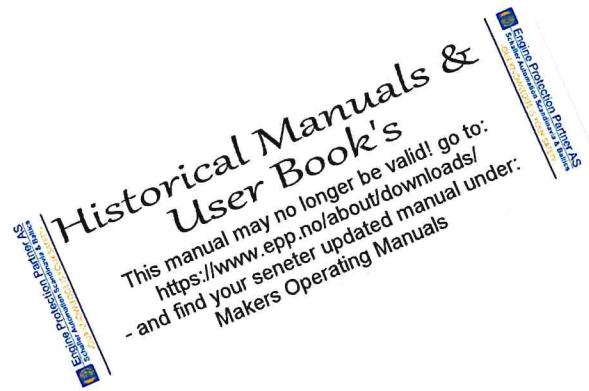
**Product name (upper left):** "RECON DS23 V2.0.0"

**View (lower left):** "Changing password for VISATRON configuration"

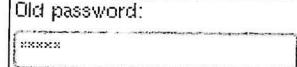
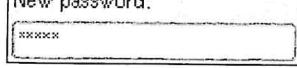
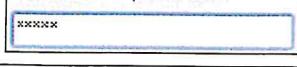
### Status field (upper right):

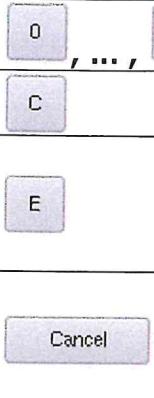
The coloring of the status field represents the global state of the VISATRON® devices connected to the remote control ReCon DS23®.

Status Field Color	Global state
White	No response
Green	Ready
Yellow	Pre-alarm
Red	Alarm
Red, Yellow, ...	Error ( <u>highest priority!</u> )

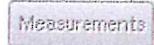
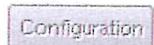
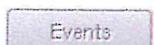
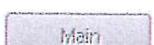


## Main window

Input box	Function
Old password: 	The input box contains the old password (five digits) which will be displayed as asterisks instead of the numbers actually entered.
New password: 	The input box contains the new password (five digits) which will be displayed as asterisks instead of the numbers actually entered.
Confirm new password: 	The input box contains the new password (five digits) for confirmation which will be displayed as asterisks instead of the numbers actually entered.

Button	Function
	Entering the numbers from "0" to "9" into the input box. Clearing the contents of the input box. Terminating the password entry and calling up the view for modifying the configuration of the remote control ReCon DS23® (see chapter 2.4.11 for further information). Cancelling the password entry and calling up the view for modifying the configuration of the remote control ReCon DS23® (see chapter 2.4.11 for further information).

## Footer

Button	Function
	Function not available.
	Function not available.
	Function not available.
	Function not available.

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### 2.4.13 Event view

	Event	ID	Date	Priority
1	ERRORE0014	01	14.07.2008 14:38:41	
2	ERRORB0014	01	14.07.2008 14:37:40	
3	INIT		14.07.2008 14:37:07	
4	ALARM	01	14.07.2008 14:37:05	

Figure 29: The contents of the event storage.

#### Title bar

**Product name (upper left):** "RECON DS23 V2.0.0"

**View (lower left):** "Event view"

#### Status field (upper right):

The coloring of the status field represents the global state of the VISATRON® devices connected to the remote control ReCon DS23®.

Status Field Color	Global state
	No response
	Ready
	Pre-alarm
	Alarm
	Error ( <u>highest priority!</u> )

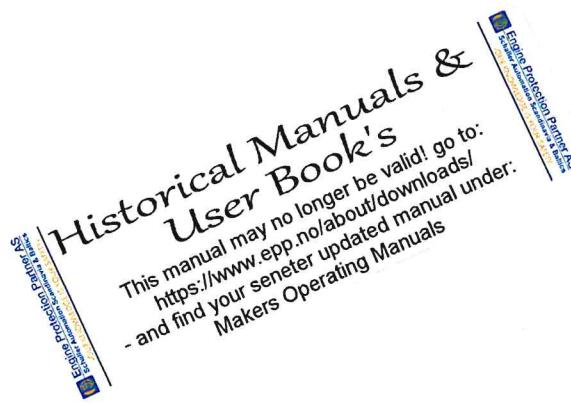
#### Main window

The contents of the event storage is displayed as a table.

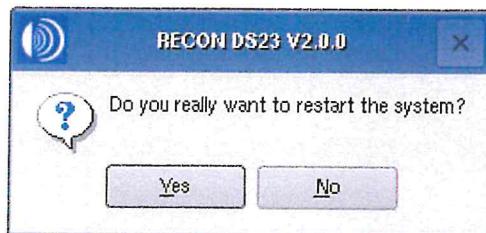


## Footer

Button	Function
Measurements	Calling up the view "Short-term measurements (general view)" showing the progress of short-term measurement values of VISATRON® devices connected to the remote control ReCon DS23® (see chapter 2.4.5 for further information).
Configuration	Calling up the dialog box for selecting the configuration mode (see chapter 2.4.14 for further information).
Events	Function not available.
Main	Calling up the main view showing the VISATRON® devices connected to the remote control ReCon DS23® (see chapter 2.4.1 for further information).

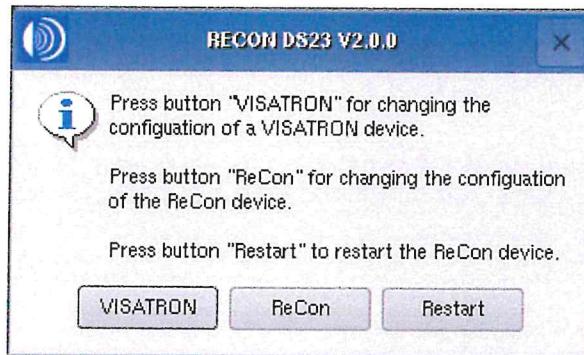


## 2.4.14 Restarting the remote control ReCon DS23®



Button	Function
Yes	Carrying out the restart of the remote control ReCon DS23®.
No	Aborting the restart of the remote control ReCon DS23®.

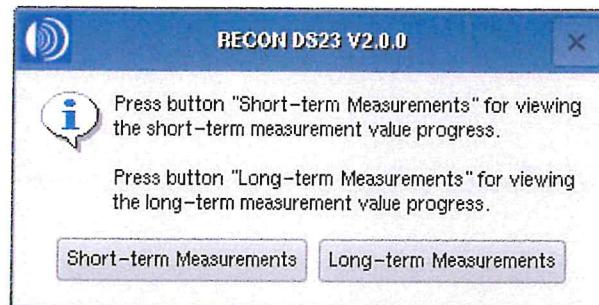
## 2.4.15 Selecting the configuration mode



Button	Function
VISATRON	Calling up the view "Main view configuration VISATRON" (see chapter 2.4.6 for further information).
ReCon	Calling up the view "Password for configuring Recon DS23" (see chapter 2.4.10 for further information).
Restart	Calling up a dialog box to carry out a restart of the remote control ReCon DS23® (see chapter 2.4.14 for further instructions).



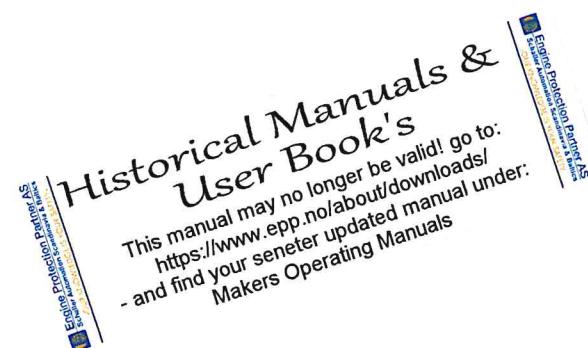
## 2.4.16 Selecting the measurement view



Button	Function
Short-term Measurements	Calling up the view of the short-term measurement values of the VISATRON® device (see chapter 2.4.3 for further information).
Long-term Measurements	Calling up the view of the long-term measurement values of the VISATRON® device (see chapter 2.4.4 for further information).

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## 3 Installation instructions

### 3.1 Mechanical installation

Slot size	IEC 6554, 186+1.1 mm x 138+1.0 mm
-----------	-----------------------------------

Steps:

1. Prepare the slot as specified.
2. Put the device into the slot.
3. Clip the fixing screws.
4. Fix the device by turning the screws.



Figure 30: Mounting the fixing screws



### 3.2 Electrical installation

The electrical installation consists of two parts:

1. power supply of the remote control ReCon DS23® device
2. connection of the VISATRON® devices with the ReCon per RS485 interface

At the ReCon side all connections use the rear connector Phoenix Contact FK-MCP 1,5/8-STF-3,81 (see Figure 34). The cable from the remote control ReCon DS23® to the next VISATRON® device goes through a cable entry – a grommet (see Figure 33) into the big plug and will be connected at the terminal block. The order number of the grommet is 11501.

From the same pins a second cable goes to the following VISATRON® device and so on. At the last VISATRON® device a so called Terminator (Order-No. 11502) has to be installed.



The terminator must be connected at the end of the bus!



**Figure 31:**

An example of sixteen VISATRON® devices series VN87plus connected to the remote control ReCon DS23® in a power plant.

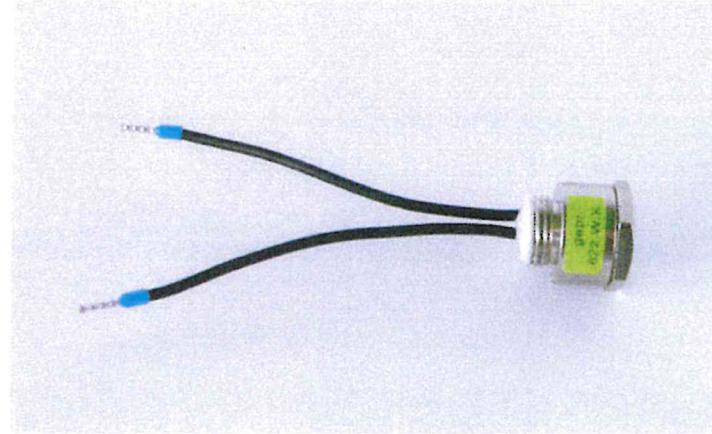


Figure 32: Terminator

The used communication cable must be twisted pair and shielded. We recommend LAPPKABEL UNITRONIC-FD CP (TP) plus UL-CSA, AWG20. The total bus length is limited to 400 m. The grommet (see Figure 33) at the VISATRON® device is designed for cable diameter between 7.5 and 10.0 mm.



The shield must be connected directly at the grommet!

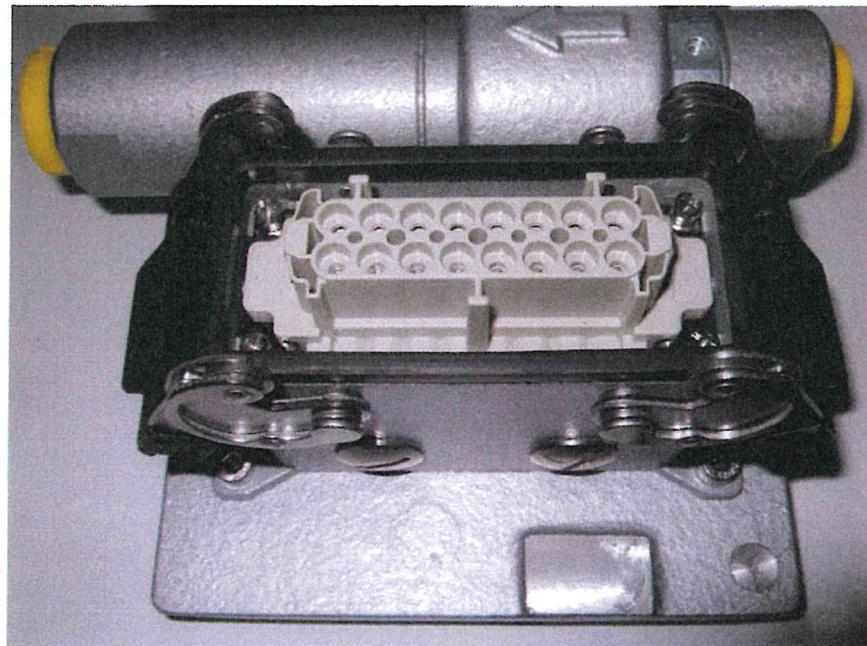
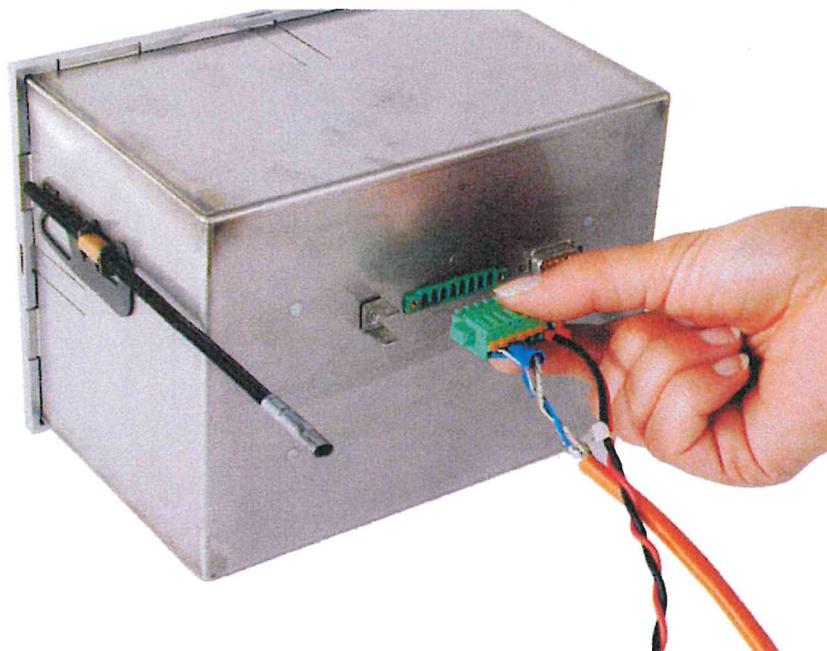
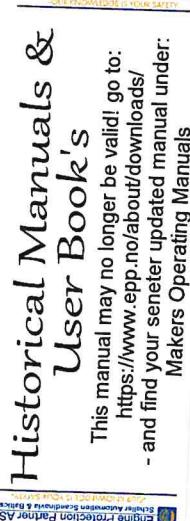


Figure 33: Cable entries on the bottom side of the VISATRON® devices

The following tables contain the pin assignment of the VISATRON® VN87plus (see also the VISATRON® VN87plus manual) and the remote control ReCon DS23® connector.

<b>ReCon DS23 to VN93 or VN87plus Oil Mist Detector</b>		
<b>Name</b>	<b>ReCon DS23</b>	<b>VN93 and VN87plus</b>
RS485 A	Pin 1	Pin 13
RS485 B	Pin 2	Pin 11
RS485 GND	Pin 3	
Shield/Earth	Pin 4	
Shield/Earth	Pin 5	
Shield/Earth	Pin 6	
0V	Pin 7	
24V DC	Pin 8	

**Table 1:** Pin assignment

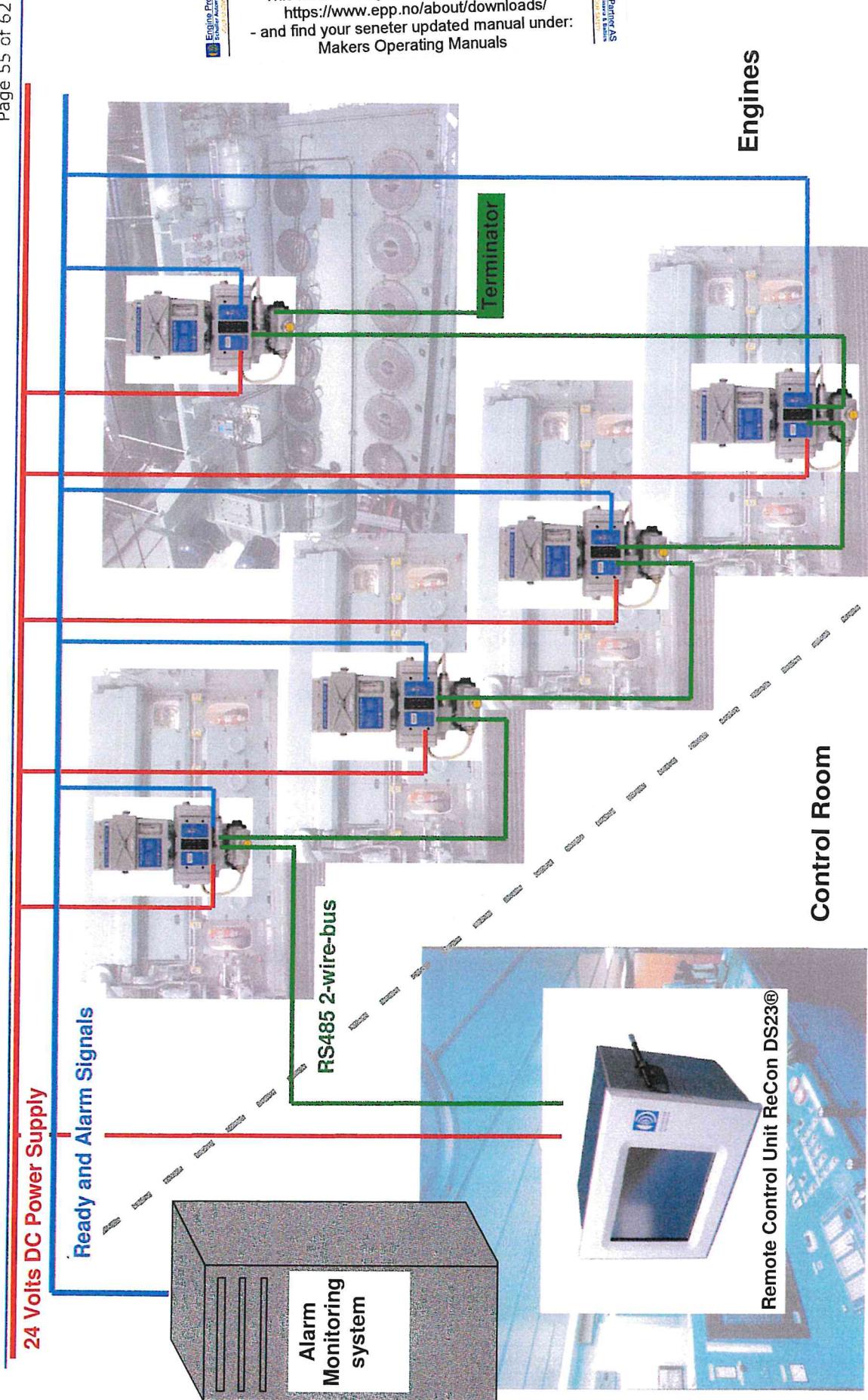


**Figure 34:** Connector on the rear side of the ReCon DS23® device



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Tel. +49(0)6842-508-0 / Fax -260 / email: info@schaller.de / www.schaller.de



## 3.3 Commissioning

A maximum number of sixteen VISATRON® devices, which must be all of type VN87plus, can be connected to the remote control ReCon DS23®.



Attend step 1 carefully. Identical addresses can cause bus collisions on the RS485 interface.

### Steps:

1. Adjust the device addresses of all VISATRON® VN87plus devices as described in the VN87plus manual from address "1" up to "16".
2. Switch on the VISATRON® VN87plus devices.
3. Switch on the remote control ReCon DS23® device by connecting the power supply.
4. Monitoring the information on the screen as described below.

### Initialization

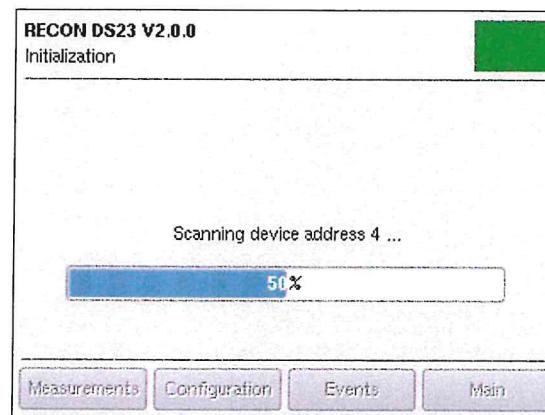
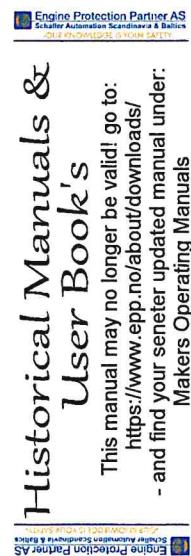


Figure 35: Identification of connected VISATRON® devices.



### Title bar

**Product name (upper left):** "RECON DS23 V2.0.0"

**View (lower left):** "Initialization"

**Status field (upper right):**

The coloring of the status field represents the global state of the VISATRON® devices connected to the remote control Recon DS23®.



Status Field Color	Global state
	No response
	Ready
	Pre-alarm
	Alarm
	Error (highest priority!)

## Main window

Progress bar	Function
	Transferring recorded events to the event storage.
	Transferring recorded long-term measurement values to the long-term measurements storage.
	Identifying VISATRON® devices connected to the remote control Recon DS23®.

## Footer

Button	Function
	Function not available.



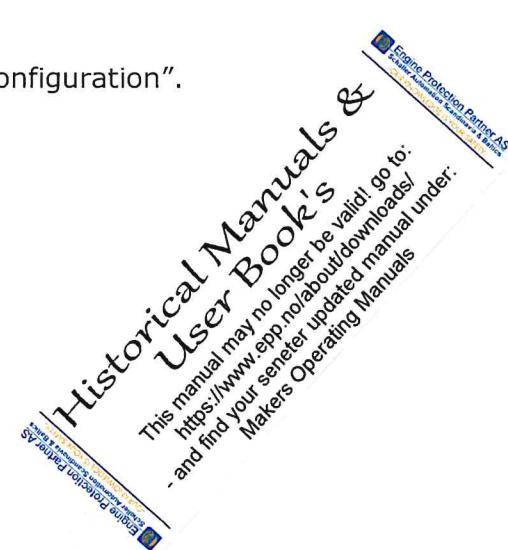
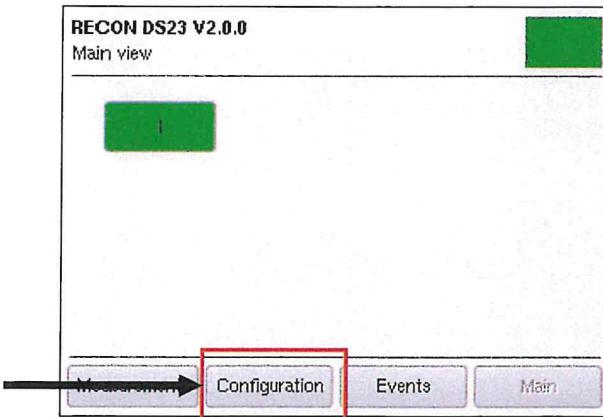
## 3.4 Trouble shooting

There are two reasons for restarting the remote control Recon DS23®:

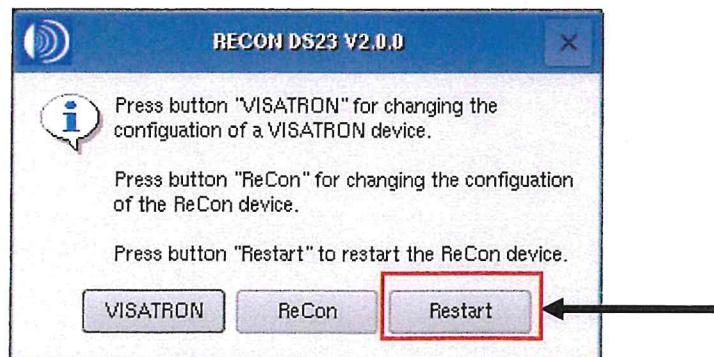
1. Following the initialization, some or all VISATRON® devices connected to the remote control Recon DS23® are not shown in the main view. Due to an interruption in communications, one or all VISATRON® devices have not responded to the master requests of the remote control Recon DS23®. After verifying the correct connection of the VISATRON® devices and the remote control Recon DS23®, a restart has to be carried out.
2. The Linux operating system and/or the application on the remote control ReCon DS23® are not running properly.

Restarting the remote control ReCon DS23®

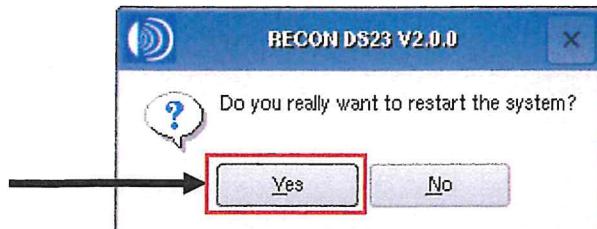
1. Switch to the main view and push the button "Configuration".



2. Push the button "Restart" to initiate the restart of the remote control ReCon DS23®.



- Push the button "Yes" to confirm the restart of the remote control ReCon DS23®.



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## 4 Maintenance procedures

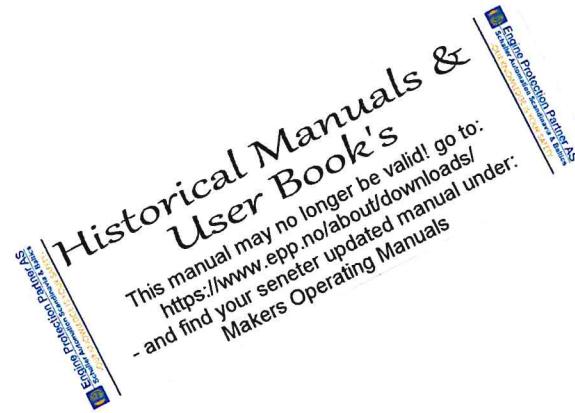
Clean the surface of the touch panel regularly with a **soft and dry cloth**.

After seven years, the batteries have to be exchanged or else in case of a breakdown of the supply voltage it is not guaranteed that all events and measurement values will be saved.



The exchange of the batteries is only allowed to be executed by the manufacturer or a person authorized by the manufacturer.

Please contact our service partners for further information.



## 5 Accessories

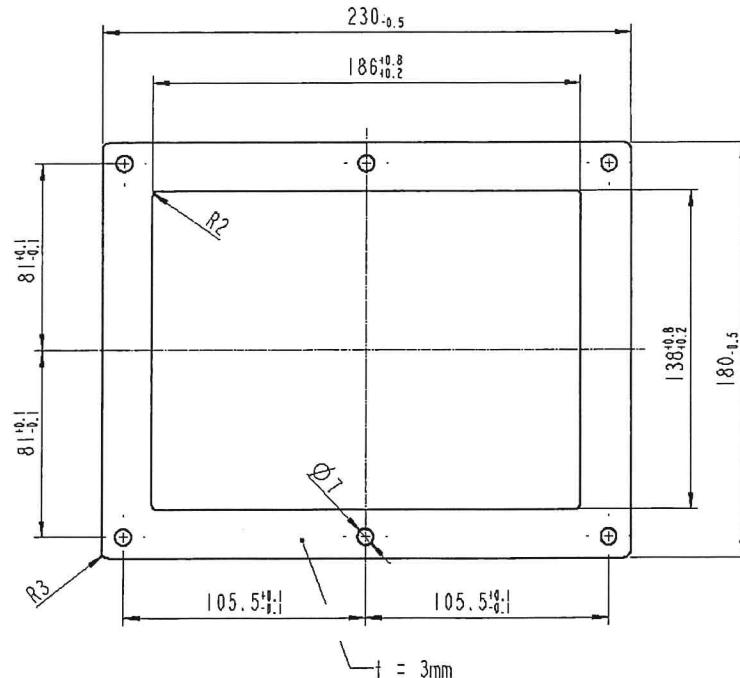
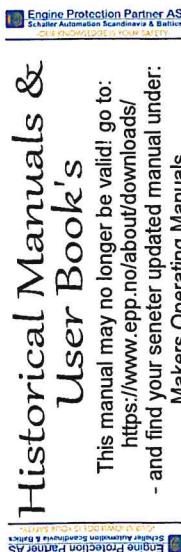
The scope of supply covers all components to connect a remote control ReCon DS23® unit to **one** VISATRON® OMD-System excluding the cable. The recommended cable can be ordered in steps of 10 m.

For **each** additional VISATRON® VN87plus device connected to the remote control ReCon DS23® unit **two** additional grommets are necessary.

If it is not possible to turn the fixing screws from the bottom side, you can use an optional adapter frame for top mounting. The six drillings are designed for M6 screws.

Order-No. 11500	Remote Control ReCon DS23® Unit
Order-No. 11501	Grommet
Order-No. 11502	Network Terminator
Order-No. 11503	UNITRONIC cable (10m)
Order-No. 11504	Adapter Frame
Order-No. 15005	Additional Manual

**Table 2:** Accessories



**Figure 36:** Adapter Frame

## 6 Technical data



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<b>Mechanical data</b>	
dimensions (w x h x d)	192 mm x 144 mm x135 mm
standard slot size	IEC 6554, 186+1.1 mm x 138+1.0 mm
slot size using adapter frame	203 mm x 139 mm
weight	2050 g
display	RGB colour display, 320 x 240 pixel, TFT
operating interface	touch panel
<b>Electrical data</b>	
power supply	18 Volts – 31.2 Volts DC, 300mA
nominal voltage	24 Volts DC
communication interface	2 wire RS485, galvanic ally separated
connector	Phoenix Contact FK-MCP 1,5/8-STF-3,81
communication cable recommendation	LAPPKABEL UNITRONIC-FD CP (TP) plus UL-CSA, 2 x 2 x AWG20, max 400 m length, 7.5-10.0mm Ø
<b>Environmental conditions</b>	
operating temperature	0 - 55 °C
storage temperature	-20 – 80 °C
max. vibrations	0.7 g
relative humidity	up to 100%
protection class	IP42
<b>Approval of classes</b>	
	Approval from Germanischer Lloyd for closed areas, environmental category C, installation in control panels or cabinets

