



DataVU 7 - Operating Manual (Concise)

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⇒ Chapter 4 "Visualization"

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⇒ Chapter 5 "Memory Presentation (History)"

1	Introduction	7
1.1	Preface	. 7
1.2	Arrangement of the Documentation	. 8
1.3	Typographical Conventions	10
2	Instrument Description	13
2.1	Displays and Controls	15
3	Operating Principle	19
3.1	Operating Principle and Graphic Elements	19
3.2	Operating Example	24
3.3	Group and Plant Management (Batches)	26
4	Visualization	29
4.1	Activating the Operator Level	29
4.2	Overview of Header Lines	30
4.3	Curve Presentation	31
4.4	Bar Graph Presentation	32
4.5	Text Picture Presentation	33
4.6	Process Image Presentation	34
4.7	Binary diagram presentation	34
4.8	Reports	35
4.9 4.9.1 4.9.2 4.9.3	Batches/Plants Current Batches Completed Batches Batch Control with Barcode Reader	36 36 38 39
4.10	Counters and Integrators	42
4.11	Comment Entry	43
5	Memory Presentation (History)	45
6	Alarm and Event Lists	49

6.1	Call from One of the Visualization Modes	50
6.2	Call from the Memory Presentation	52
6.3	Symbols	52
7	Memory Manager	53
8	Device Manager	57
8.1	Close Device Manager	58
8.2	Log-in and Log-out	58
8.3	Device information	60
8.4	Device Audit Trail	65
8.5	Configuration	66
8.6	Parameterization	66
8.7	Service	67
9	Entering text and values	69
9.1	Text entry	69
9.1 9.1.1	Text entry Entering characters	69 69
9.1 9.1.1 9.1.2 9.1.3	Text entry Entering characters Insert spaces Delete character	69 69 71 71
9.1 9.1.1 9.1.2 9.1.3 9.1.4	Text entry Entering characters Insert spaces Delete character Move cursor	69 71 71 71
9.1 9.1.1 9.1.2 9.1.3 9.1.4 9.1.5	Text entry Entering characters Insert spaces Delete character Move cursor Enter text from text list	69 71 71 71 71 71
9.1 9.1.1 9.1.2 9.1.3 9.1.4 9.1.5 9.1.6 9.1.6	Text entry Entering characters Insert spaces Delete character Move cursor Enter text from text list Finish entry Peieet entry	 69 71 72
9.1 9.1.1 9.1.2 9.1.3 9.1.4 9.1.5 9.1.6 9.1.7	Text entry Entering characters Insert spaces Delete character Move cursor Enter text from text list Finish entry Reject entry	 69 71 71 71 71 71 71 72 72
9.1 9.1.1 9.1.2 9.1.3 9.1.4 9.1.5 9.1.6 9.1.7 9.2	Text entry Entering characters Insert spaces Delete character Move cursor Enter text from text list Finish entry Reject entry Entry via selection field	 69 71 71 71 71 71 72 72 72
9.1 9.1.1 9.1.2 9.1.3 9.1.4 9.1.5 9.1.6 9.1.7 9.2 9.3	Text entry Entering characters Insert spaces Delete character Move cursor Enter text from text list Finish entry Reject entry Entering values Whole numbers (integers)	 69 71 71 71 71 71 72 72 72 73 73
9.1 9.1.1 9.1.2 9.1.3 9.1.4 9.1.5 9.1.6 9.1.7 9.2 9.3 9.3.1 9.3.2	Text entry Entering characters Insert spaces Delete character Move cursor Enter text from text list Finish entry Reject entry Entering values Whole numbers (integers) Real numbers (floating point)	 69 71 71 71 71 72 72 73 74
 9.1 9.1.1 9.1.2 9.1.3 9.1.4 9.1.5 9.1.6 9.1.7 9.2 9.3 9.3.1 9.3.2 10 	Text entry Entering characters Insert spaces Delete character Move cursor Enter text from text list Finish entry Reject entry Entering values Whole numbers (integers) Real numbers (floating point)	 69 71 71 71 71 71 72 72 73 74 75
 9.1 9.1.1 9.1.2 9.1.3 9.1.4 9.1.5 9.1.5 9.1.6 9.1.7 9.2 9.3 9.3.1 9.3.2 10 10.1 	Text entry Entering characters Insert spaces Delete character Move cursor Enter text from text list Finish entry Reject entry Entering values Whole numbers (integers) Real numbers (floating point)	 69 71 71 71 71 71 72 72 73 74 75 75
 9.1 9.1.1 9.1.2 9.1.3 9.1.4 9.1.5 9.1.6 9.1.7 9.2 9.3 9.3.1 9.3.2 10 10.1 10.2 	Text entry Entering characters Insert spaces Delete character Move cursor Enter text from text list Finish entry Reject entry Entering values Whole numbers (integers) Real numbers (floating point) Web server General Online Visualization (All Visualizations Excent Batches)	 69 71 71 71 71 71 72 72 73 74 75 78
 9.1 9.1.1 9.1.2 9.1.3 9.1.4 9.1.5 9.1.6 9.1.7 9.2 9.3 9.3.1 9.3.2 10 10.1 10.2 10.3 	Text entry Entering characters Insert spaces Delete character Move cursor Enter text from text list Finish entry Reject entry Entering values Whole numbers (integers) Real numbers (floating point) Web server General Online Visualization (All Visualizations Except Batches) Three freely programmable HTML pages	 69 69 71 71 71 71 72 72 73 73 74 75 75 78 80
9.1 9.1.1 9.1.2 9.1.3 9.1.4 9.1.5 9.1.6 9.1.7 9.2 9.3 9.3.1 9.3.2 10 10.1 10.1 10.2 10.3 10.4	Text entry Entering characters Insert spaces Delete character Move cursor Enter text from text list Finish entry Reject entry Entering values Whole numbers (integers) Real numbers (floating point) Web server General Online Visualization (All Visualizations Except Batches) Three freely programmable HTML pages Online Visualization of Current Batch Penorts	 69 69 71 71 71 71 72 72 73 73 74 75 75 78 80 81

10.5	4-Way View	
11	Appendix	85
11.1	Bar code	
11.1.1	Batch control	
11.1.2	Batch texts	

12 Index

89

1.1 Preface



Please read this manual before commissioning the instrument. Keep the instructions in a place which is accessible to all users at all times.

Please assist us in improving these instructions where necessary.

Your comments will be appreciated.



If any difficulties should arise during commissioning, you are asked not to carry out any manipulations that could endanger your rights under the instrument warranty!

Please contact the nearest subsidiary or the head office in such a case.



When returning modules, assemblies or components, the regulations of EN 61340-5-1 and EN 61340-5-2 "Protection of electronic devices from electrostatic phenomena" must be observed. Use only the appropriate **ESD** packaging for transport.

Please note that we cannot accept any liability for damage caused by ESD.

ESD = Electro Static Discharge

1 Introduction

1.2 Arrangement of the Documentation

The documentation for this instrument is addressed to equipment manufacturers (OEMs) and users with appropriate technical expertise. It consists of the following parts:

Instrument documentation in printed form

59486

Operating instructions

The operating instructions are an extract from the operating manual and cover the basic operation of the paperless recorder.

59488/59490 Installation instructions

The installation instructions describe the installation of the recorder and the connection of the supply and signal cables. The instructions also contain a list of the technical data.

59488 Installation instructions for recorder with zinc die-cast panel

59490 Installation instructions for recorder with stainless steel panel

Instrument documentation in the form of PDF files

The "Instrument documentation in the form of PDF files" is on the CD that is included in the delivery.

59484 Operating manual

It contains information about commissioning, operation and parameterization on the instrument, as well as about the setup program (available as an option).

59486 Operating instructions

The operating instructions are an extract from the operating manual and cover the basic operation of the paperless recorder.

59494 Interface description (serial interfaces)

This provides information on communication (RS 232/RS 485) with supervisory systems.

Interface description (Ethernet interface)

This provides information on the connection of a paperless recorder to a company-internal network. This description is integrated into 59494.

59496 Interface description (PROFIBUS-DP interface)

This provides information on the connection of a paperless recorder to a PROFIBUS-DP system.

59488/59490 Installation instructions

The installation instructions describe the installation of the recorder and the connection of the supply and signal cables. The instructions also contain a list of the technical data.

59488 Installation instructions for recorder with zinc die-cast panel

59490 Installation instructions for recorder with stainless steel panel

59492 Setup program

These instructions describe the functions of the setup program. The setup program is available as an accessory.

DS-DV7-1-EN- Data sheet

1202

The data sheet contains general information, the order details and, technical data.

59498 PC evaluation software PCA3000

The operating manual describes the operation and the features of the PC evaluation software.

The PC evaluation software serves to visualize and evaluate process data (measurement data, batch data, messages ...). The process data can be read in via the CompactFlash memory card, or made available through the PCC software.

59500 PCA communications software PCC

The operating manual describes the operation and features of the PCA Communications software.

The PCA Communications software is responsible for the data transfer from the paperless recorder to a PC, or across a network.

1 Introduction

1.3 Typographical Conventions

Warning signs

The signs for **Danger** and **Caution** are used in this manual under the following conditions:

Danger

This symbol is used when there may be **danger to personnel** if the instructions are ignored or not followed correctly!

Warning

This symbol is used when there may be **damage to equipment or data** if the instructions are ignored or not followed correctly!

Warning

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This symbol is used where special care is required when handling components liable to damage through electrostatic discharge.

Note signs

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	NOTE
	This symbol is used when your special attention is drawn to a remark.
	Reference
	This symbol refers to further information in other manuals, chapters or sections.
4	Footnote
abc'	Footnotes are remarks that refer to specific points in the text. Footnotes consist of two parts:
	A marker in the text, and the footnote text.
	The markers in the text are arranged as continuous superscript numbers.
	Action instruction
*	This symbol indicates that an action to be performed is described.
-	The individual steps are marked by this asterisk, e.g.
	* Rotate control knob
	* Press control knob

Presentation modes

Screen texts

Program manager Texts that are displayed in the setup program are indicated by **italic script**.

Menu items

Edit → Device data

Menu items in the setup and instrument software referred to in this operating manual are shown in italics. Menu name, menu item and submenu item are separated from each other by " \rightarrow ".

1 Introduction

2 Instrument Description





The connection diagram is described in the Installation Instructions 59488/59490. When the paperless recorder is delivered, a printed version of the installation instructions is included.

59488	Installation instructions for recorder with zinc die-cast panel
59490	Installation instructions for recorder with stainless steel panel

2 Instrument Description

Device features

Front panel	Zinc die-cast with lid	Stainless steel (enclosed)
Interfaces locatesd on front panel	2x USB	None
External memory	CF-card located on front panel, maximum 4 GB	None
Operation	Control knob	Touchpad
Interfaces located on device's rear	2x USB, 1x RS232/RS485, 1x RS232, 1x Ethernet, 1x PROFIBUS-DP (option)	2x USB, 1x RS232/RS485, 1x RS232, 1x Ethernet, 1x PROFIBUS-DP (option)
Special features Tested acc. to KTA 3505		

2.1 Displays and Controls

Recorder with zinc die-cast panel

Power LED (green) is on continuously as soon as power is applied.



^{1.} CompactFlash® is a registered trademark of the SanDisk Corporation.

2 Instrument Description

Recorder with zinc die-cast

panel





The CompactFlash memory card must not be removed during access (signal LED is on).

The USB interfaces are **not** designed for continuous use.



The life of the background illumination can be prolonged by using the parameter "Screen off".



Touchpad

The touchpad is used to configure and operate the recorder. A circular motion with a finger at the outer edge has the same effect as the turning of the control knob. Tapping the middle of the touchpad has the same effect as when the control knob is pressed.

All descriptions of the control knob in this operating manual also apply to the touchpad.



For recorders with a stainless steel panel (extra code) the CompactFlash memory card is not available as external memory. The measured data can be saved through one of the interfaces or through a USB flash drive (on the rear side).

No interfaces at the front panel are available.

The installation instructions from 59490 are to be heeded and complied with.

Recorder with stainless steel panel

3.1 Operating Principle and Graphic Elements

Header

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The functions of the paperless recorder are selected in the header. The selected function is indicated by a blue background.

Recorder with control knob

- Function selection by rotating the control knob (to right or left).
 - Function is activated by pressing the control knob.

Recorder with touchpad (stainless steel front panel)

- Function selection through a circular motion with a finger at the outer edge of the touchpad (when activating the circular motion, two of the eight LEDs in the touchpad are on).
 - Function selection by tapping the middle of the touchpad (all LEDs in the touchpad are on).

The symbols (for the variable functions) vary according to the function that is currently active.

The following diagram shows the header for normal display when the vertical



diagram (curve display) has been selected.

Device manager	⇒ Chapter 8
Memory manager	⇒ Chapter 7
Alarm and event lists	⇒ Chapter 6
Operator level (visualization)	⇒ Chapter 4
Group selection	\Rightarrow See "Group selection" on Page 31.
Memory presentation (History)	⇒ Chapter 5
Numerical measurement display	⇒ See "Numerical measurement display (diagram view)" on Page 22.
	⇒ See "Numerical measurement display" on Page 31.
Channel step-on	⇒ See "Channel step-on" on Page 35.
Group step-on	⇒ See "Group step-on" on Page 35.

StatusThis line (bar) shows alarand title barand information about the
automatically blanked or

This line (bar) shows alarm and error messages, as well as general information, and information about the active representation mode (e.g. sampling rate). It is automatically blanked out by the system, if necessary.

If the text is shown in red, this indicates an error message.



3 Operating Principle

Numerical	The numerical measurement display is available for the presentation modes:
measurement display (diagram view)	 Curves, history (of the curve presentation) and digital diagram available.

In the **curve presentation**, the numerical display can be switched on or off. This switching on or off also applies to the history presentation.



(HIGH alarm) or orange (LOW alarm). The colors can be configured in the setup program.

If the numerical measurement display is switched on in the **history (of the curve presentation)**, you can switch between MIN and MAX display. Whether or not MIN and MAX values are both available at the same time, depends on the settings for the group operating mode.

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17.8%	48.3%	72.6%	

In the digital presentation, the diagram header can be switched on and off.

BI/O 09		BI/O 11		BI/O 13	
	BI/O 10		BI/O 12		BI/O 14

Visualization window (diagram)



In the visualization window, the measurement data are shown in graphical form. Alarms are indicated by a red or orange color for the curve (can be configured in the setup program).

Communication with the operator (device configuration, checking alarm and event lists etc.) also takes place via the visualization window.

3 Operating Principle

3.2 Operating Example

Start The normal display is active.



Operation

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* Select the operator level by rotating the control knob.

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* Activate the operator level by pressing the control knob.

2006/08/04	08:39:35 (F) 🎸 👿 ┨ 🕅	*	CH ()	8 9
Diagram-Gro 21.0% 20.8%	Visualization Visualization	1	s 8	2 2
08:39:05	Bargraph Bargraph Text picture Process image Picery diagram			
08:38:05	Current batch Last completed batch			
08:37:05				

* Select the operator level by rotating the control knob.





 \frown

* Activate the bar graph presentation by pressing the control knob.

Result

The bar graph presentation starts.



3.3 Group and Plant Management (Batches)



Within the recorder, all analog inputs, binary inputs, counters and integrators, are collected together into groups. A maximum of nine groups is available as a total. Each group can consist of a maximum of 6 analog inputs, 6 binary inputs (or outputs), and 4 counters/integrators.

The visualization and storage of the analog inputs and binary inputs (outputs) is always made on a group basis.

If plants (batches) are used, the groups have fixed assignments to the plants (batches).

Plant number	Group	Plant (batch)
0	1 9	None
1	1 9	1
2	1 3 4 6 7 9	1 2 Not assigned
3	1 3 4 6 7 9	1 2 3



In order for a batch to be usable, its main group must be active (status = "Display" or "Display, save") and at least one analog channel in the group must be assigned.

Batch for plant	Main group
1	1
2	4
3	7

The number of plants is configured through the parameter *Device manager* \rightarrow *Configuration* \rightarrow *Batches/plants* \rightarrow *Gen. plant parameters* \rightarrow *Number of plants.*

4.1 Activating the Operator Level

The type of visualization (curve presentation, bar graph etc.) is selected at the operator level. Note that the appearance of the operator level can be influenced by the configuration.

- * Select the operator level by rotating the control knob.
- * Activate the operator level by pressing the control knob.



You can alter the visualization after activating the operator level.



The functions in the header line will change, depending on the visualization. The following types of visualization are available:

Curves	⇒ Chapter 4.3
Bar graph	⇒ Chapter 4.4
Text picture	⇒ Chapter 4.5
Process image	⇒ Chapter 4.6
Binary	⇒ Chapter 4.7
Report	⇒ Chapter 4.8
Batch	⇒ Chapter 4.9
Counters/integrators	⇒ Chapter 4.10
Comment entry	⇒ Chapter 4.11

4.2 Overview of Header Lines



Comment entry The comment entry does not have its own header. The current header will remain when this function is activated. The comment that has been entered is placed in the event list.



The first four functions in the header are identical for all visualizations. These are supervisory functions (see "Header" on page 19).

Differences only arise in the last five functions.

4.3 Curve Presentation

In this presentation, the individual signal traces run from top to bottom of the display (vertical presentation).



Group selection You can use this function to directly select and display any one of the groups.

MemoryThis function starts the presentation of the data that are available in the historypresentationmemory.

⇒ Chapter 5 "Memory Presentation (History)"

Numerical
measurementThis function is used to switch the numerical measurement display (diagram
header) and binary traces on or off, as well as to activate the envelope display.display

4 Visualization

ChannelThis function activates the scaling display. Repeated activation steps through
the scaling for the channels within the group, and then blanks it out again.



GroupUnlike "Group selection", where any group can be selected, this function isstep-onused to select the groups one after another.



4.4 Bar Graph Presentation

In this visualization mode, the analog inputs are presented both numerically and in bar graph form. In addition to the analog channels, the digital inputs can also be visualized at the bottom of the display.



If only digital channels are to be presented, then Chapter 4.7 "Binary diagram presentation" is recommended.

4.5 Text Picture Presentation

In the presentation, the analog channels are presented numerically, together with the channel name and the channel description. In addition to the analog channels, the digital inputs can also be visualized at the right-hand edge of the display.





1-channel presentation



4.6 Process Image Presentation

The display shows selected measurement signals and background pictures in a maximum of nine process images. The setup program is used to prepare and configure the images.



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Each process image can be freely configured by the user. One background image (316×188 pixel) and 25 objects (analog/binary signals, icons, texts, bars) can be used per process image. Further information can be obtained from the instructions on the setup program (59492).

4.7 Binary diagram presentation

In this presentation, the analog channels are left out and only the binary channels and signals are visualized.



4.8 Reports

Each one of the reports covers all the analog channels in a group. Each group has its own configurable report.

The current reports are visualized in the presentation.



Group selection You can use this function to directly select any one of the groups and display the report data.

ReportThis function is used to switch between the various types of report for the
current channel.

ChannelThis function can be used to switch between the individual channels of the
group that is currently active.

GroupUnlike "Group selection", where any group can be selected, this function isstep-onused to select groups one after another.

4.9 Batches/Plants

When recording batch processes, a distinction is made between the plant and the batch.

The instrument can combine and record the data from up to 3 plants in batches (batch report). The number of batches for a plant is not limited. The instrument distinguishes between "current batch" and the most recently "completed batch" for a plant. The number of plants that are used and the texts in the batch template can be configured on the instrument or in the setup program.

4.9.1 Current Batches

(c	Batch start/stop only if configured)		Change	batch/pla	ant	Batch status
Close eo	diting	I	Edit bato	ch		
	2006/ 18/04 13:3 Current batch-Batc ✓ OK Start bat	243 🕒 🏠		0		- (time)
	Program name		Default	Text 01		
	Customer info		Default	Text 03		
	Batch name		Default	Text 05		
	Batch number Batch start Batch end Batch duration		00000000 00:00	02Default 1	Fext	

This display shows the current data for the batch(es).

The batch texts on the right-hand side can be entered with one of the following options:


Edit This function can be used to edit the batch text fields that are available batch (configured for this purpose). When the function has been called up, the first editable field in the screen template will be activated. Program name * Press the control knob to start editing. * Enter the text (Chapter 9 "Entering text and values"). Program name P1 * Rotate the control knob to select a new field or button, and activate it by pressing the control knob. Switching between the individual batches/plants. Max. 3 plants can be Change batch/ configured. plant Start/stop Use the parameter Device manager → Configuration → Batches/plants → batch *Plant X* \rightarrow *General* \rightarrow *Batch start* to configure how a batch starts and stops. The following are available: Start/stop by a binary signal (control signal) _ Start/stop by a barcode reader, and Manual start/stop by control knob. At least 5 seconds must elapse between the stop of a batch (batch end) and the next start (batch start). A new batch cannot be started until this time has elapsed. The batch report that is displayed is active. **Batch status**

The batch report that is displayed is **not** active.

4 Visualization

4.9.2 Completed Batches

	Change batch/plant
	Batch evaluation
2006/08/04	3:35:26 GP 🎸 🚾 🖳 🖳
Last completed	batch-Batch 01
Program name	Default Text 01
Customer info	Default Text 03
Batch name	Default Text 05
Batch number	000000001 Default Text
Batch start Batch end	13:29:03
Batch duration	00:15

Batch evaluation

Completed batches can be evaluated in three different ways:

- Curves (graphical presentation)
- Report (numerical presentation)
- Attachments (e.g. recipes)

Analyze batch data
Analyze batch data
🔁 — 🎦 Diagram
- Reports

* Rotate the control knob to select a type of presentation, then press the knob to activate this type.

Activating the door symbol in the header closes the selected presentation, and the batch data will be displayed again.

The corresponding batch data will be shown in its own batch visualization, Change depending on how many plants have been configured.



batch/ plant

38

4.9.3 Batch Control with Barcode Reader

If a barcode reader is connected to the interface "RS232 for barcode reader" (connector 2) or "RS232/RS485" (connector 7), then the batch start, batch stop, and input of batch texts in a current batch report, can be controlled by the barcode reader. The bar codes that are used all correspond to the type "Code39".

 Preconditions
 - The interface must be configured for bar code operation.

 Example:
 Configuration → Interface → RS232 for barcode reader → General →

 Protocol = bar code.
 Protocol = bar code.

- The batch start (= batch stop) must be configured.
 Example for batch start/stop:
 Configuration → *Batch/plant* → *Batch (Plant)* 1 → *General* → *Batch start* = bar code.
- Every line that is to be set by the bar code must be configured.
 Example for plant 1, line 1 (program name):
 Configuration → Batch/plant → Batch (Plant) 1 → Line 1 → Content of right column = bar code.

Activate batch



Before entering commands through a barcode reader, the corresponding batch/plant 1 - 3 must be prepared by scanning in "BATCH1 - 3" for the bar code commands, regardless of whether or not they are automatically displayed.

Show batch
reportIf one of the visualizations is active, and nothing is being entered or edited at
the moment, then the current batch report can be inserted via the barcode
reader. The precondition is that the batch is active and the parameter is set to
Configuration \rightarrow Screen \rightarrow Bar code -> current batch = Yes.

Activate and display (if required) batch report for batch (plant) 1:



BATCH1

Activate and display (if required) batch report for batch (plant) 2:



BATCH2

Activate and display (if required) batch report for batch (plant) 3:



Start and stopIf the batch report is configured for start/stop via barcode reader, then it will be
started and stopped as follows.

Start batch:

- * Scan bar code for "Batch report for batch (plant) 1 3".
- * Scan start.



Stop batch:

- * Scan bar code for "Batch report for batch (plant) 1 3".
- * Scan stop.





If a batch report is stopped, then texts that have been activated by a bar code will be reset to the standard text in the currently active batch report depending on the parameter "Delete line". In the completed batch report, the texts will be saved. Activate batchIf a line in a batch report is configured for barcode activation, the activationtextsproceeds as follows.

Activate text:

* Scan bar code for "Batch report for batch (plant) 1 - 3".

Scan text.



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The first line of the activated batch report that has been configured for text input via bar code will automatically be filled with the text that corresponds to the bar code. If several line have been configured for barcode activation, then they will be processed one after another, from top to bottom.

Reset entry Execution of the following bar code will reset the activation of the batch texts. The standard texts (parameter *Factory setting*) will be displayed, and the first line will be prepared for input.



Summary of the All the bar codes that are required are also collected together in Chapter 11.1 "Bar code".



The codes for batch control (BATCH1, BATCH2, BATCH3, START, STOP, RESET) cannot be used for setting batch texts.

4.10 Counters and Integrators

In this presentation, the current states of the counters and integrators (totalizers) are displayed, as well as the operating hours counter. Up to 9 counters and integrators can be shown in one screen template. The functional characteristics (counter, integrator or operating hours counter) are defined in the device configuration.





4.11 Comment Entry

This function can be used to enter a text (max. length 31 characters) that is entered in the event list when the input is completed.



In curve presentation (in the displayed group), the text entry is marked by a pencil symbol.

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- ⇒ Chapter 6 "Alarm and Event Lists"
- ⇒ Chapter 4.3 "Curve Presentation"
- ⇒ Chapter 4.11 "Comment Entry"

The text can now be found in the event list, under the heading "All events", but also under the corresponding batch.



If batches are used (parameter: *Device manager* →

Configuration \rightarrow Batches/plants \rightarrow Gen. plant parameters \rightarrow Number of plants is larger than 0), then the groups have a fixed assignment to the batches.

Plant number	Group	Plant (batch)
0	1 9	None
1	1 9	1
2	1 3 4 6 7 9	1 2 Not assigned
3	1 3 4 6 7 9	1 2 3

The Memory presentation function can be used to display and check data from the internal main memory (SRAM) of the instrument. The size of the memory for memory presentation can be configured.

The memory presentation can be activated in the visualization modes "Curve presentation" and "Binary presentation", and is also used to display completed batches.



The memory presentation can only be called up if the parameter *Configuration* \rightarrow *Groups* \rightarrow *Group* $x \rightarrow$ *Parameters* \rightarrow *Status* is set to "Display, save" in the configuration for the group.

Activate memory presentation (History)









Present cursor position

A cursor is now shown in the center of the visualization window. The corresponding measurements are shown in the line for "Numerical measurement display". The status and title bar shows the time corresponding to the present cursor position, storage cycle that was used, and the scaling for the presentation.

5 Memory Presentation (History)

- **Event list** This function is used to present the event list for the group that is visible. The message that is closest to the cursor is shown in the list.
 - ⇒ Chapter 6 "Alarm and Event Lists"
- Scroll lines Rotating the control knob moves the cursor through the visualization window. The data in the "Numerical measurement display" are updated every time there is a shift. If you move right up to the edge of the window, the measurement curve will automatically be shifted and the required data will be presented.

"Scroll lines" can be ended by pressing the control knob.

Scroll pages Rotating the control knob moves the cursor an entire screen (=page) at a time. The data in the "Numerical measurement display" are updated every time there is a shift. The system automatically positions the cursor at the end of the page, as required.

"Scroll pages" can be ended by pressing the control knob.

Zoom and This function affects how many measurements are used to calculate a point in the diagram, and to search for measurements according to date and time.

Zoom



The factory setting is "1:1", which means that every measurement in the History memory will be displayed. "1:2" means that every second measurements is displayed, and so on.

- * Select the zoom factor by rotating the control knob.
- Close the dialog window and activate the new zoom factor by pressing the control knob.
- * Selecting "Exit" closes the dialog window, and the presentation remains unchanged.

Fit to screen

This function is only available for presenting the data for a completed batch. If this function is selected, the zoom factor will automatically be adjusted so that the measurement curve for the completed batch is shown in one window. However, 1:1 presentation should be used for evaluating a batch.

Search

If you select "Search", the dialog window for entering the date will be shown.

Cursor position				
🗸 OK	× Cancel			
Time		12:29:37		
Date		2006/08/04		

* Select the date and time, and use OK to close the dialog.

If the date that was entered is in the History memory, the cursor will move to this position and the data will be shown.

Numerical This function decides whether the MAX or MIN values are shown in the "Numerical measurement display". Min or Max values arise when more measurements are recorded than are displayed. This will be the case if "Min/ Max recording" is activated in a group operating mode.

Channel stepon This function activates the scaling display. Repeatedly activating the function steps through the scaling for the channels within the group, and then blanks it out again.

0.0000 Analog input03 60.000 C C C C C C

Close memory This function starts the presentation of the data that are available in the internal main memory of the instrument.

The alarm and event lists can be called up in two ways:

 A call from one of the visualization modes, e.g. curve presentation (diagram)
 (Chapter 4.2 "Overview of Header Lines")

and

- A call from the memory presentation (Chapter 5 "Memory Presentation (History)").

Alarm lists

Alarm lists contain only the alarms and errors that are currently present.



The alarm list will not be updated as long as the window is open. Remedy: Close once, and open again. This will update the alarms.

Event lists

Events list contain all the events that have occurred, including all alarms and errors.



A maximum of 150 entries can be fitted into the two lists. The lists will be deleted if a reconfiguration takes place.



The following description assumes that three batches are being used. The number of batches may vary, because it can be configured by the user.

6 Alarm and Event Lists

6.1 Call from One of the Visualization Modes

 In the header line, rotate and press the control knob to select and activate the bell symbol.



* Select the required list.

Activate alarm list



 Rotate the control knob to select a list, then press the knob to activate the list.

Activate event list First, the directory tree for the event lists must be "unfolded".

 Rotate the control knob to select an event list, then press the knob to activate the list.



 Rotate the control knob to select a list, then press the knob to activate the list.

Example In the example, you can see a complete event list.

2∣ №	006/08/04 laster	10:21:16 `	CF 33%	¥ 🔟	
Event list-All events					
	Date	Time		Description	
	2006/08/04	10:21:00	4	High Alarm Count 01 off 👘 🧖	
	2006/08/04	10:20:56		CF card in place	
	2006/08/04	10:20:53		CF card removed	
	2006/08/04	10:19:43		Ethernet: email error inde	
	2006/08/04	10:19:36	Ŷ	Alarm B I/O 09 off	
	2006/08/04	10:19:35	*	High Alarm Count 01 on	
	2006/08/04	10:19:35	Ŷ	Alarm B I/O 09 on	
	2006/08/04	10:19:33	Ŷ	Batch 01 end	

Close list * Close the event list by pressing the control knob.

The visualization that was active before the list was called up will now be displayed again.

6 Alarm and Event Lists

6.2 Call from the Memory Presentation



* In the header line, rotate and press the the control knob to select and activate the bell symbol.



Only the event list for the active group will be shown in the memory presentation. The message that is closest to the cursor is shown in the list.

Close list

* Close the event list by pressing the control knob.

The memory presentation that was active before the list was called up will now be displayed again.

6.3 Symbols

Ø,	Power on (instrument has been switched on)	
×	Power off (instrument has been switched off)	
¥	Error	
*	Alarm disappears (alarm is no longer present)	
*	Alarm occurs (an alarm is present)	
1	Comment	
Ŷ	Event occurs (e.g. binary input has been closed)	
Ŷ	Event disappears (e.g. binary input has been opened)	
(no symbol)	Other messages	

The memory manager contains functions for data exchange between the paperless recorder and CF memory cards or USB memory sticks.



Symbols

The symbol for the Memory manager (menu: Memory manager) in the header can be shown in different ways.

This shows the available memory of the CompactFlash memory card that has been inserted.



(CF)

992

Shows the available memory of the USB memory stick.

If no CF card or no USB memory card has been inserted, then one of the following symbols will be shown, depending on the type of data read-out that was configured.

This shows the available internal memory for reading out data via the CompactFlash memory card.

This shows the available internal memory for reading out data via the interface.





Access to the memory manager menu via the header is only possible if a CF card is inserted in the device.

If one of the visualization modes, (see Chapter 4 - e.g. Curve Presentation), is active when a CF card is inserted in the instrument, then the menu appears automatically.

If not all functions are available, then you must log in to the device first, in order to obtain the required access rights.

⇒ Chapter 8.2 "Log-in and Log-out"



The CF card must not be removed while a data transfer to or from the card is in progress.



7 Memory Manager

Activation for USB stick



Access to the Memory manager menu via the header is **not** possible with a USB memory stick.

If one of the visualization modes (Chapter 4 - e.g. Curve Presentation) is active when a USB memory stick is inserted, the menu automatically appears and remains active until the memory stick is removed again.

If not all functions are available, then you must log in to the device first, in order to obtain the required access rights.

⇒ Chapter 8.2 "Log-in and Log-out"



The USB memory card must not be removed while a data transfer to or from the stick is in progress.

Start via menu * Activate the memory manager by rotating and pressing the control knob (CF card must be inserted).

Close memory manager

Remove hardware safely

Update CF card

Backup -> CF card

Config data -> CF card

CF card -> config. data

Save all + update CF card





Safely

config. data

The functions of the memory manager are the same for CF cards and USB memory sticks. For USB sticks, the menu entries have "USB stick" instead of "CF card".

Close memory Close the memory manager and reactivate the previous visualization. manager (Exit)

The function should always be called before removing a CF card or a USB removing stick. This is the only way to ensure that files are properly stored on the data hardware storage medium.

> When the message "Hardware can be removed now" appears, the data storage medium can be removed.



Update Measurement data not yet saved to a CF card (a USB stick) are written to the **CF** card data storage medium.

Backup -> All measurement data in the memory (also those which have already been CF card fetched) are written to the data storage medium.

Config data -> The configuration data and the user list (for password management) are **CF** card written to the data storage medium.

CF card -> Configuration data are read into the device from the data storage medium.



This will give the recorder a new configuration.

Subsequently, the data recording will be started again.

Save all + All current reports will be concluded and written to the data storage medium, update CF together with the measurement data that have not yet been saved. The present counter and integrator states will also be saved. card

Service data -> Special data are saved to the CF card. The function may only be carried out if CF card the user has been asked to do so by a service engineer from the instrument manufacturer.

Software This function serves for reading in a new device software (firmware). To do this, a special CF card is required. Only a service engineer from the instrument update manufacturer may perform the update.

CF card -> The user list is read in from the data storage medium and activated in the user list paperless recorder.

7 Memory Manager

General information



The function *CF card update* reads out data that have not yet been read out. After read-out, data are not marked as read in the recorder but are not deleted.

Function *Backup* \rightarrow *CF card* reads all data from internal memory, including what had already been read. After read-out, the data are marked as read in the recorder. The function *Backup* \rightarrow *CF card* is therefore ideal for test and service work.



Only one data storage medium can ever be inserted at a time, either a CF memory card or a USB memory stick. Paperless recorders without extra code Stainless steel are equipped with two USB host interfaces (one on the front and one on the back). In this case also, only one can be used at a time, **never** both together. The functions of the Device manager vary, depending on whether a user is logged in or not.





The differences between "No user logged in" and "User logged in" only become visible in the submenu "Parameterization".

8 Device Manager

8.1 Close Device Manager

Close the device manager and reactivate the previous visualization.

8.2 Log-in and Log-out

- * Select the Device manager in the header, by rotating the control knob.
- * Activate the Device manager by pressing the control knob.
- * In the *Device manager* activate the function *Log in*.



Default users



The paperless recorder is delivered ex-factory with an internal user list which contains two users.

- 1. User: Master password: 9200
- 2. User: User
- password: 0

The setup program can be used to alter the two user names and their passwords and access rights, and transfer this information to the device.

Log-in

* In the menu Device manager \rightarrow Log-in, activate the function Log-in.



Select the user. The user name can be changed by rotating the control knob.

* Select "OK" with the control knob, and press the control knob.



* Enter the password by rotating and pressing the control knob, and finish the entry with "OK".

You are now logged in to the system.

2006/08/04	11:41:43
Master	<u> </u>

8.3 Device information

This function provides you with information on the hardware and software components of the instrument. The momentary values of all the internal and external inputs can also be checked.

The control knob can be rotated to display every single table. The function is terminated by pressing the control knob.

Version

				Device name (configurable)
				Version of device software (firmware)
	2008/03/25 14:42:51 Master 🍋	CF 33%		33
	Device info			
ĺ	Version Info	Harc	W	Module 1 Modul
	Device name	<mark>R</mark>	ec	order
	SW version	18	37.	02.01 -39
	VDN version			
	Serial no. device	00	00	000000000000000000
	Serial no. CPU	00	00	000000000000000009
	Serial no. module 1	F	AC	1026209P00233608
	Serial no module 2	F	AC	1026209P00233607
	Serial no. module 3			
	Service info			

Module 1 = bottom module slot Module 2 = middle module slot Module 3 = top module slot Info



Hardware

	Bottom mod Middle module s Top module slot	ule slot slot
2008/03/25 14:46:44 Master Device info Version Info	GE 💓 🕅 Hardw. Module	
Module type Module type Module type Profibus RS232 Internal memory Math	6 AI module 3 Analog /8 bin. 6 Relays No Yes 64 MB Yes	

RS232 for barcode reader

8 Device Manager

Module 1

The picture below shows a module that has been fitted with 6 analog inputs. Depending on the hardware level, the picture may look different. Module 1 is in the bottom module slot.



Module 2The picture below shows a module that has been fitted with 3 analog inputs
and 8 binary inputs/outputs. Depending on the hardware level, the picture may
look different. Module 2 is in the middle slot.

2006/08/04 10:27:50 CF 💓 🌆 Master 🔁 93%	1	
Instrument info		
Info Hardw. Module 1	Module 2	Modul 🚛
-Analog inputs	–Digital I/O–	
7: +20.949 %	9: 0	
8: +233.52 %	10: 🔽 0	
9: +28.130 %	11: 🔽 🛛	
	12: 0	
	14: 0	
Display of the current		
analog values from modu	ule	
-		
States of the b outputs (0 =	inary inputs = not active)	/
	,	-

Module 3 The picture below shows a module that has been fitted with a relay card (6 relays). Depending on the hardware level, the picture may look different. Module 3 is in the top slot.



(0 = not switched).

- **Ext. analog** input (AE) 1-2 The two windows show the current external analog inputs. External analog inputs are read into the recorder via one of the interfaces (e.g. through the Modbus Master function).
- **Ext. binary input** (BE) The window shows the current external binary inputs. External binary inputs are read into the recorder via one of the interfaces (e.g. through the Modbus Master function). Unlike the internal binary inputs/outputs, external binary outputs are not available.
- **Ext. texts** The window shows the current external texts, which can be integrated into the batch reports as label or information text. External texts are read into the recorder via one of the interfaces (e.g. through the Modbus Master function).

8 Device Manager

Eth. info 1

1	2006/08/04 10:30:08 (Master 🍋	CF 🐳 🔟			
	Instrument info				
ľ	Ext. B I/O Ext. texts	Eth. info 1 Eth. info 2	ME		
	MAC address	0-c-d8-0-94-b5			
	IP address	10.10.1.179			
	Subnet mask	255.255.0.0			
	Gateway address	10.10.0.1			
	DNS server address	10.10.0.120			
	DNS instrument name	lsntssc			
Information about the current Ethernet configuration					

Eth. info 2

2006/08/04 10:30:53 (CF) Master 👌 99%	¥ 题 🛛 🔤 👘
Instrument info	
Ext. B I/O Ext. texts Eth	. info 1 Eth. info 2 🛛 🔳
Ethernet status 1	458774
Ethernet status 2	0
Ethernet status 3	57968
Ethernet status 4	0
Ethernet status 5	458774
Ethernet status 6	0
Ethernet status 7	57968
Ethernet status 8	0
Ethernet status 9	2592000

Information about the current Ethernet communication

Parameter	Description
Ethernet status 1	Received Ethernet packets
Ethernet status 2	Received Ethernet packets with errors
Ethernet status 3	Transmitted Ethernet packets
Ethernet status 4	Transmitted Ethernet packets with errors

Parameter	Description
Ethernet status 5	Received TCP packets
Ethernet status 6	Received TCP packets with errors
Ethernet status 7	Transmitted TCP packets
Ethernet status 8	Transmitted TCP packets with errors
Ethernet status 9	Received Lease time, in seconds

USB info Information appears in the window via the USB interfaces. This information is only of interest for servicing.

Interface Information about the serial interfaces and PROFIBUS DP interface appears in the window. The user can see the set interface parameters without having to go to the configuration. Parameters are also visible if there are no users logged in on the instrument.

8.4 Device Audit Trail

The audit trail contains a log of all user actions on the recorder.

21 M	006/08/04 laster	08:29:56	CF) 🔌 🕅
ł	Audit Trail		
	Date	Time	Description
	2006/08/04	06:47:00	New configuration
	2006/08/04	06:46:27	Log-in
	2006/08/04	06:45:07	Automatic log-out
	2006/08/04	06:45:07	Power on
	2006/08/03	16:55:42	Power off
	2006/08/03	16:46:59	New configuration
	2006/08/03	16:46:01	New configuration
	2006/08/03	16:45:29	New configuration

The function is terminated by pressing the control knob.

8.5 Configuration

This function can be used to alter the configuration of the recorder.

⇒ See 59484

ad

An alteration of the configuration results in the current recording being closed down and the new data being recorded in a separate time frame from the "old" data. It is not possible to present the data before reconfiguration and the data after reconfiguration as a single entity. The instrument works with a new configuration.

8.6 Parameterization

For parameterization, some functions will not be available if no user is logged in, or the user who is logged in does not have the access rights for these functions.

Only the setting of individual current batch numbers is enabled in the factory (default) setting.

⇒ See 59484

8.7 Service

The "Service" functions will also not be available if no user is logged in, or the user who is logged in does not possess access rights for these functions.

2011/10/24 Master	15:07:56 👍 💥 🔟
Se Se	ervice
	-∰ Exit - Config> factory settings - Config> factory settings - Debug window

Config. -> The current configuration can be saved within the device as the new factory settings setting.

Restore factory The factory setting, e.g. created by "Set->curr. settings as default", is called up and the instrument is reset.

Debug window Only a service engineer from the instrument manufacturer may use this function.

9.1 Text entry

9.1.1 Entering characters

If a Text entry field is selected, and then activated by pressing the control knob, then a text can be entered or altered.

Device name	Recorder	
-------------	----------	--

The cursor (position marker) is at the end of the current setting. The active key or function that will be performed when the control knob is pressed is shown in blue.



confirm the text entered.

Available characters



The characters that are shown as available are just an example. They can be adjusted to suit your needs through the setup program.

9 Entering text and values

Character* Move the cursor onto the required character, and press the control knob.entryAnother selection window will open.



 Rotate the control knob to select upper case (capital) or lower case (small) letters, or reject an entry, and activate/confirm the choice by pressing the control knob.

008/04/25 12:24:02 🖙 💉 🕅 🛛 🔹	
Device name	
Recorder R	
abcdefghijkl	
mnopq r stuvwx	
Data readout via CF card	

Entering special Special characters are entered as text.

* Select the # symbol and press the control knob.

All the special characters that can be selected will now be shown.



Here too the selection and confirmation of the characters are made by rotating and pressing the control knob.

Number* Select number "1", and press the control knob.

All the numbers that can be selected will now be shown.

1 2 3 4 5 6 7 8 9 0 🕇

The selection and confirmation of the numbers are made by rotating and pressing the control knob.

characters

Select temperature unit * Select " " and press the control knob.

All the temperature units that can be selected will now be shown. For better legibility, the degree sign (°) and the unit of measure (C or F) are separated, and must be individually selected.



The selection and confirmation of the symbol is made by rotating and pressing the control knob.

9.1.2 Insert spaces

* Select the space button (Space)) and press the control knob.

The space character will be inserted to the right of the cursor.

9.1.3 Delete character

* Select the delete button (<- Delete) and press the control knob.

The character to the left of the cursor will be deleted.

9.1.4 Move cursor

Select the cursor positioning button (H+Cursor) and press the control knob.

The cursor can now be moved. To end shifting, press the control knob again.

9.1.5 Enter text from text list

The last 20 texts that were entered (confirmed by OK) will be stored in the recorder, in an internal text list. This function can be used to call up the list and select a text for current application.

* Call text list (Text list).

The selection and confirmation of the required text are made by rotating and pressing the control knob.

9.1.6 Finish entry

* Select the "OK" button (VOK) and press the control knob.

Character entry will now be ended. The text that was entered is accepted, and the dialog window is closed.

9.1.7 Reject entry

* Select the "Cancel" button (Cancel) and press the control knob.

Character entry will now be ended. The text that was entered is **not** accepted, and the dialog window is closed. The previously active setting is retained.

9.2 Entry via selection field

If a selection field is selected, and then activated by pressing the control knob, then the text (value) can be entered from a previously defined list.



The cursor (position marker) is on the current setting.

* Make the selection by rotating and pressing the control knob.


9.3 Entering values

9.3.1 Whole numbers (integers)

There are two possibilities for entering integer numbers:

- selection by altering the individual digits of a number, or
- selection by incrementing and decrementing.

Digit-by-digit entry of an integer For this entry, each digit of the number (units, tens, ...) and the sign are selected with the control knob.



- **Example *** Select "2" (the tens digit) by rotating the control knob (+02).
 - * Press the control knob.

The tens digit is now shown in red, to indicate that this digit can now be altered (+02).

 Rotate the control knob to alter the tens digits, and then confirm the entry by pressing the control knob.

The tens digit has now been altered, and is shown in blue again (+09).

Selection by For this entry, the complete number is reduced by 1 (decremented) or increased by 1 (incremented) with the control knob.

and decrementing



Example

- Select the hour by rotating the control knob (13).
 - * Press the control knob.

The number is now shown in red, to indicate that it can now be altered (13).

 Rotate the control knob to alter the number, and then confirm the entry by pressing the control knob.

The number has now been altered, and is shown in blue again (14).

9.3.2 Real numbers (floating point)

To enter real numbers (with a decimal point), each digit of the number (units, tens, etc.), the decimal point position, and the sign are selected with the control knob.

 Sequence
 - Position the cursor.

 - Enter the number or define the decimal point position.

 For number entry, the number is inserted at the right of the cursor.

 For number entry, the number is inserted at the right of the cursor.

 * Select "Cursor" and press the control knob.

 The real number is indicated by a blue background.

 * Rotate the control knob to move the cursor to the required position, and then press the control knob.

 When a number is entered, it is inserted at the right of the cursor.

 When a number is entered, it is inserted at the right of the cursor.

Character
deletion* Position the cursor.* Select "Delete" and press the control knob.

The character to the left of the cursor will be deleted.



10.1 General

The web server is integrated in the paperless recorder as a standard feature. Four different modes of presentation are available:

- "Online Visualization (All Visualizations Except Batches)"
- "Three freely programmable HTML pages"
- "Online Visualization of Current Batch Reports"
- "4-Way View"

The web server can be accessed on the PC side with Microsoft® Internet Explorer by entering the IP address (e. g. http://10.10.90.45). DNS names can be assigned on the device. Therefore a device can also be accessed using the DNS names. For visualizing graphics, an SVG Viewer (from Adobe®, for instance) must be installed on the PC in addition to Internet Explorer.



Up to 4 PCs (clients) can have access to the device via the Ethernet interface.

Log-in A password query has been activated in the factory. The user can switch it to inactive with the PC setup program.

	Connect to 10.10.1	.117 🛛 🖓 🔀
		G
	Realm	
	User name:	💈 Master 🛛 👻
	Password:	••••
	۵]Remember my password
		OK Cancel
If the op entry templa be the web	tion is active (,), the ate will automatically filled in the next time browser is restarted. The user only needs to confirm with OK.	Factory setting: User = Master Password = 9200



When entering the user name and password, distinctions of upper- and lower-case letters must be observed.

10 Web server

Home page



Online visualization automatically comes up as the home page if the web server is started by the browser or, if it has already been activated, the user (left) clicks the "Recorder" link.

Areas

The web server's display is divided into three areas:

- Header
- Navigation
- Visualization area

Header





Individual pages can be brought up by clicking (left mouse button).

VisualizationThe visualization area shows current data for the paperless recorder. The mostarearecent data are read from the device automatically every 3 seconds.

10.2 Online Visualization (All Visualizations Except Batches)

Data that are displayed correspond to the configured groups of the recorder.



The sample screen shows the web server's home page. This page can be used to represent channels in the same manner as on the recorder's screen. (Left) click to bring up the available menus of the recorder.



Switching to bar graph presentation

- * (Left) click the Visualization menu.
- 3/25 16:33:48 СН GR 1 * (Left) click the bar graph. /25 16:35:30 댕 GR N 22 07 m-Group 01 10s Visualization 349.4 .89 Visualization Exit 222.9 .5% Diagram Bargraph





10.3 Three freely programmable HTML pages



The sample screen shows one of three freely programmable HTML pages. These pages can be created and modified with the setup program.



Further information can be obtained from the instructions on the setup program (59492).

10.4 Online Visualization of Current Batch Reports

When batch pages of a plant are called up, the current data from the recorder is read and displayed.





The plant pages (batch pages) only match the pages in the recorder if the factory setting of the instrument has been retained. If plant data have been changed in the recorder, HTML pages must be updated to reflect the changes.

10.5 4-Way View

Visualization for up to four devices is possible with 4-way view. The visualizations may involve one device or up to four different ones. Different visualizations can be activated for each display (for example two views of a device, curve presentation and bar graph display).

Before 4-way view can be used, the function must be configured.

* (Left) click "Setup".

4-fold view	
- Start	
- Satup	

Setup

The setup window appears, where all IP addresses in use can be configured.

Configuration of Quad View isn't done. Please fill out	adresse fields and save config.
Quad View - Setup	
Quad View	
Adress 1	Adress 3
Adress 2	Adress 4
Save config Start visualisation	

If all or some fields are empty, they have not been configured for 4-way view yet.

* Complete the configuration and click "Save config".

Result: IP addresses (or DNS names) that have been entered are saved as cookies in the PC and remain intact until cookies are deleted (for example by the PC browser).

	Save config Start visualisation
	Config saved!
Clie	ck "Start" or "Start visualization".

4-fold view	
- Start	Start visualisation
- Sellp	

Result: 4-way view starts.

*



In the example shown here, two different recorders are accessed (recorder 1 top left and top right, recorder 2 bottom left and bottom right). Two different visualizations are shown for each recorder.

Switching between the four visualizations works as shown in Chapter 10.2 "Online Visualization (All Visualizations Except Batches)".

10 Web server

Unlike a normal online visualization, the header contains modified buttons.



11.1 Bar code

11.1.1 Batch control

Plant 1



BATCH1

Plant 2



Plant 3

Start

Stop

Reset entry





START

BATCH3





RESET

11 Appendix

11.1.2 Batch texts

Product name SUPER PRODUCT



SUPER PRODUCT

NORMAL PRODUCT



Norma Er noboor

TOOTHED DISK 34



TOOTHED DISK 34

AXIS ROD 45



AXIS ROD 45

Product numbers

645736



645736

012876



86

345435



345435

Job numbers A83737



A83737

A4555455



A4555455

A455445



A455445

Personnel number

4576



4576

7665



7665

Numerics

1-channel presentation 33 4-way view 82

A

Alarm and event lists 20, 49 Alarm limits 32–33 Alarm lists 49 Arrangement of the documentation 8 Audit trail 65

В

Backup -> CF card 55 Bar code 39, 85 Bar graph presentation 29–30, 32 Batch 29–30, 36 analyze 38 automatic start 37 change 36, 38 edit 36 Batch start/stop 37 Batch status 37 Batches 26, 43, 49 Start manually 36 Binary 29 Binary Presentation 34 Binary presentation 30

С

CF card -> config. data 55 CF card -> user list 55 Change password 58 Channel description 33 Channel name 33 Channel step-on 20, 31, 35, 45 Color display 15, 17 Comment Entry 43 Comment entry 29-30 Commissioning 7 CompactFlash 9, 15-16 Completed batches 38 Config data -> CF card 55 Configuration 66 Control knob 14-15, 17, 19 Counter 42 Counters/integrators 29-30, 42

12 Index

Cursor 45 Curve presentation 29–31

D

Data readout via interface 53 with a CF memory card 53 Device Information 60 Device Manager 57 Device manager 20 Diagram header 20, 34 Diagram view 22 Display 15, 17 Display off 16 Displays and controls 15 DNS 75

Ε

Edit batch 37 Electrostatic discharge (ESD) 7 Entering values 73 Eth. info 64 Event lists 49 Event mode 31 Ext. texts 63

F

Factory setting 67 Firmware 55

G

Group 43 Group presentation 33 Group selection 20, 31, 35 Group step-on 20, 31, 35 Groups 26

Η

Hardware 61 Header 16, 19 History 20, 45

I

Info 61 Installation Instructions 13 Instrument documentation in printed form 8 Instrument documentation in the form of PDF files 8 Integrators 42 Introduction 7 IP address 75

Κ

Keys 11

L

Log-in 58 Log-in and Log-out 58 Log-out 58

Μ

Max. value 35 Memory manager 20 Memory managers 53 Memory presentation 20, 31, 45 Module 62

Ν

Normal display 24 Normal mode 31 Note signs 10 Numerical measurement display 16, 20, 22, 31, 45

0

Operating mode *31* Operator level *20*, *24*, *29*

Ρ

Parameterization 66 Password 58, 75 Password management 55 PCA3000 9 PCC 9 Plant 36 Plants 26

12 Index

Power LED 15, 17 Presentation modes 11 Process image presentation 29–30, 34

R

Report 29–30, 35 Report step-on 35 Returning 7 Rights 58

S

Sampling rate 31 Save all + update CF card 55 Screen saver 16 Screen texts 11 Scroll 45 Search 45 Service 67 Stainless steal 14 stainless steel 13 Status bar 16, 21 Status LED 15, 17 SVG 75 Symbols 23, 52

Т

Text entry 69 Text picture presentation 29–30 Textual presentation 33 Time period 35 Timed mode 31 Title bar 16, 21 Touchpad 14, 17, 19 Typographical Conventions 10

U

Update CF card 55 USB 16, 53–55 User 75 User list 55 Users 57–58 logged in 57 logged out 57 Standard (default) password 58 Standard (default) user 58

V

Version 60 Visualization 20, 29 Visualization window 16, 23

W

Warning signs 10 Warranty 7 Web server 75 Writing configuration data to CF card / reading from CF card 55

Ζ

Zoom 45

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