

Printer Communication Controller

PCC 400-x-BM

for connection to the Batching Master

User manual PCC 400 Batching Master-Software

only valid in connection with the installation guide PCC 400-x
(x = variant)

Version 15

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Safety information

The personnel for installation, commissioning, diagnostics and maintenance must fulfil the following requirements:

- Trained, qualified specialists must have a relevant qualification for this specific function and task
- Are authorised by the plant owner/operator
- Are familiar with federal/national regulations
- Before beginning work, the specialist staff must have read and understood the instructions in the User Manual and supplementary documentation as well as in the certificates (depending on the application)
- Following instructions and basic conditions

The operating personnel must fulfil the following requirements:

- Being instructed and authorised according to the requirements of the task by the facility's owner-operator
- Following the instructions in these Operating Instructions

Validity of Installation and Operating Instructions

- This User Manual applies to all PCC 400-x models with connection to Batching Master only in connection to the installation manual PCC 400-x (x = hardware version)
At the time of creation of this manual variants A, B, C and D were available. Other variants are in preparation.
- The hardware is described in a separate manual. It is not possible to operate Batching Master and Pipeline Master on one PCC 400 simultaneously.
- Your IBS agent will be able to give you information about any improvements or modifications.
- The manufacturer is not responsible for damage caused by incorrect or unauthorised use. Conversions and changes to the instrument must not be made, otherwise the certification and guarantee become invalid.

If in this manual e. g. a specified serial COM is named, please use the Installation Guide for more information about this.

IT security

We turn automatic safety updates (patches) off in the operating system. If the PCC 400 is attached to the network/internet, the operator or the responsible network administrator must guarantee that corresponding security procedures are taken up (e. g. install Firewall).

The PCC 400 should be operated on an uninterruptable power supply.

Turn off the PCC 400 not by switching off the power supply.

Please press the power button on the PCC 400

or turn off via the software.



After briefly pressing the power button all running programs at the PCC 400 get closed within about 60 seconds and shuts off after further 15 seconds. Don't press the button for more than 1 second, because the PCC 400 then shuts off without previously shut down the operating system. This means that important data and programs could be destroyed on the hard disk.

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1 System description

The PCC 400 is a PC whose software starts automatically after power on. This is adapted to the batch controller Batching Master and is used to print and store metering data.

Other housings (e. g. mini-pc, standard housing, 19"...) and configurations are possible. Only the 'PCC 400 Batching Master' software is described in this manual.

Mixed operation of Batching Master and Pipeline Master at the same PCC 400 is not possible. For the exact hardware description please refer to the installation guide PCC 400-x.

The PCC 400 is a Modbus RTU Master. The Batching Masters are connected by an interface converter to the PCC 400. Intrinsically safe Batching Masters need additional a IPC 300 i for safety isolation.

The connection of mouse, keyboard and monitor are recommended.

1.1 Password of the system administrator

The PCC 400 system administrator password is "IBSBatchControl" ex works. Please change this password. Open the terminal mode by pressing CTRL, Alt and T simultaneously and type
passwd [username].

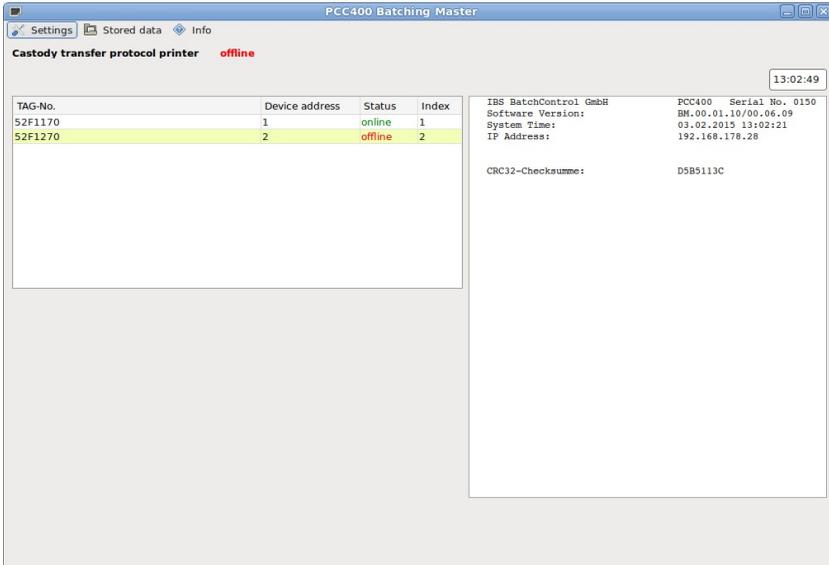
The username is "pcc" ex works and displayed on the right top. Therefore you enter "passwd pcc" in the terminal. Confirm this with the RETURN key. Please take the further petitions from the terminal window.

2 Starting up PCC-Batching Master

If the PCC 400 is switched on, the operation system and the program will start automatically.

If there is no Batching Master registered at the PCC 400 please register these as described in section 2.3.1.

2.1 Printout at restart PCC



If the printer which is used for custody transfer printouts is connected correctly on the left side at top the message “custody transfer protocol printer online” and the following text is printed:

IBS BatchControl GmbH PCC 400 Serial No.:xxxx
 Software Version: BM.xx.xx.xx / xx.xx.xx
 System Time: dd.mm.yyyy hh:mm:ss
 IP: xxx.xxx.x.xxx

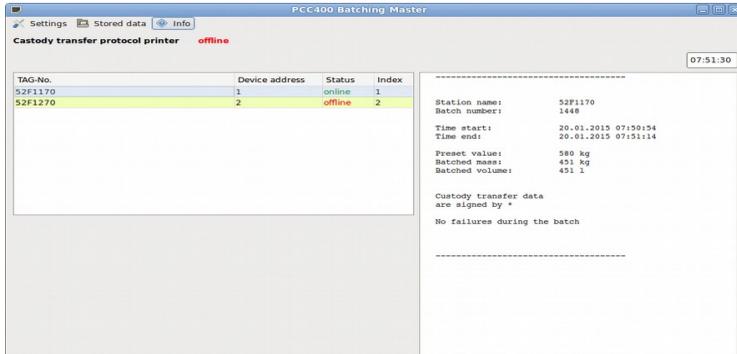
CRC32-Checksumme: xxxxxxxxxxxx

The first part of the software version is the custody transfer version number, the second part is the not custody transfer version number. The connected Batching Masters are listed in the left part of the window.

Starting up PCC-Batching Master

If there is no Batching Master available, they must be logged (see section 2.3.1 TAG settings). The IP address is only used for network connection. The IP address for LAN0 is set to 192.178.1.77. LAN1 obtains his address from the DHCP server.

The PCC 400 is ready to use. All batches are printed and shown similar in the right part of the display window.



In the Batching Master programming level function 4.11.1 the printout over PCC 400 is switched on.

The printer delay is set in function 4.11.2. This is used if the flow shall be counted short time after the batch is stopped. The custody transfer data block is written after this delay time and the PCC 400 gets the correct batch values by the Batching Master.

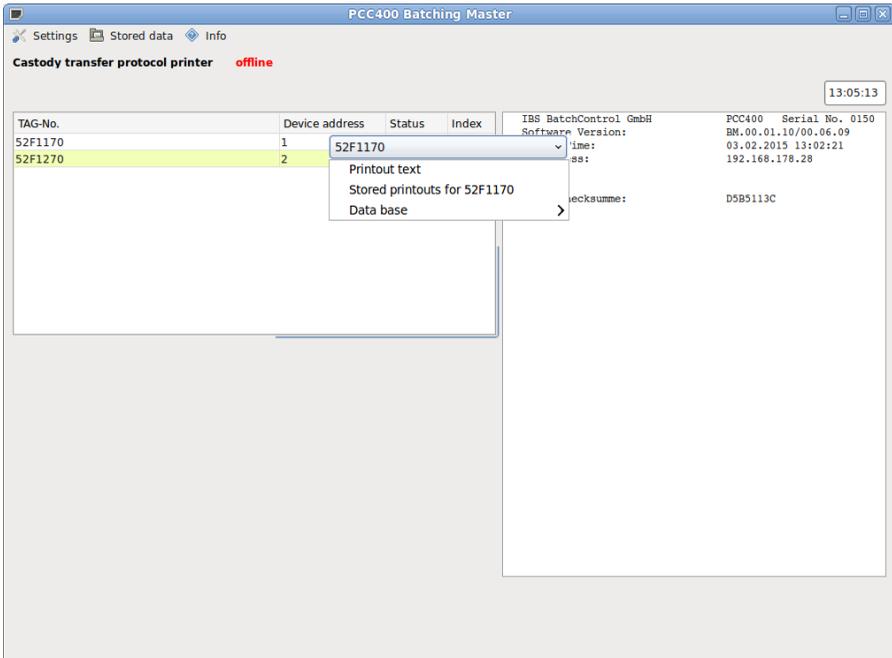
The termination conditions of a batch, if a printer is not connected or active, are defined in function 4.11.3. If **no stop** is selected, a batch could be done without an active printer. If **no start** is selected a new batch could only be done with active printer. A new batch can be started after the last batch was printed as an original document or stored in the PCC 400.

If the connection to the Batching Master failed, an error message is displayed. The status "online" changed to "offline".

2.2 Configure printouts

You can define text blocks which can be printed before and after the custody transfer printout. These texts can be written with a built in text editor. The PCC400 program starts automatically. To edit the text blocks press the right mouse key at the Batching Master in the list left side of the window. A window with following menus appears:

- edit text
- show documents from [station name]
- data base



After you choose **edit text**, a password is required and the following window appears.

The standard password at delivery is “password”.



When a custody transfer dongle is active and the Batching Master is selected as custody transfer unit, only headline, footer, beginning and final text can be edited.

PCC400 configuration of the printout text.

Header

Beginning text

User-defined texts read (Reg. 301-400)

text for 52F1270

Print	Text	Metrological relevant
<input checked="" type="checkbox"/>	Station name:	
<input checked="" type="checkbox"/>	Batch number:	
<input checked="" type="checkbox"/>	Time start:	
<input checked="" type="checkbox"/>	Time end:	
<input checked="" type="checkbox"/>	Preset value:	
<input checked="" type="checkbox"/>	Batched mass:	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Batched volume:	<input checked="" type="checkbox"/>
<input type="checkbox"/>	Batched std.-vol.:	<input type="checkbox"/>
<input type="checkbox"/>	Standard temp.:	<input type="checkbox"/>
<input type="checkbox"/>	Average density:	<input type="checkbox"/>
<input type="checkbox"/>	Average temp.:	<input type="checkbox"/>
Custody transfer data		
are signed by *		
can not be read!		
No failures during the batch		
Failures during the batch:		
Checksum failure		
Read circle failure number:		

Totalisator Masse:

Totalisator Volumen:

Totalisator Std.-Volumen:

Final text

Footer

The check mark in the column “Print” activates this line for the printout. All data is stored in the data base and in the CSV or PDF file.

The texts are pre-set and appear in front of the printed line. These texts can be translated into national languages of other countries. If the check mark “metrological relevant” is set, the dongle inserted and sealed, then this value is printed included stars.

The printout format is as following:

Station name: xxxxxxx
 Batch number: xx
 Time start: dd.mm.yyyy hh:mm:ss
 Time end: dd.mm.yyyy hh:mm:ss

Preset value: xxxx
 Batched Mass: * xxxx*
 Custody transfer data
 are signed by *.
 (possible error messages)

2.3 Global settings

The menu settings are in the upper line. Settings are only possible as long as the dongle is active for not custody transfer data.

The screenshot shows the PCC400 Batching Master software interface. The window title is "PCC400 Batching Master". The top menu bar includes "Settings", "Stored data", and "Info". The "Settings" menu is open, showing options like "Batching Master", "System", "BM port", "Printer settings", "Modbus Slave Port", "Terminal mode", "Product selection", "Error-Logfile", "PDF path", "Password", "MySQL DB", "Language", and "LOG File". The main area shows "Printer offline" and a table with columns "Device address", "Status", and "Index". The table has two rows: (1, online, 1) and (2, offline, 2). To the right, there is a timestamp "08:00:21" and a printout area showing measurement data: "Messstelle: 52F1170", "Beleg Nr.: 1449", "Start Abfüllung: 20.01.2015 07:51:59", "Ende Abfüllung: 20.01.2015 07:52:08", "Vorgewählt: 50 kg", "Abgefüllte Masse: 52 kg", and "Abgefülltes Vol.: 52 l". Below this, it says "Eichamtlich relevante Daten gekennzeichnet durch *" and "Keine Fehler während der Dosierung".

A password is required before changes are possible. The standard password at delivery is "password" and valid for 5 minutes. After this time it must be entered once more. How to change the password is described in section 2.3.10.

2.3.1 TAG settings

Please select the menu Settings – TAG:

ID	TAG-No.	Device address	Serial-No.	Sealed
1	Station-17A1	1	959	No
2	Station-18A1	2	960	No

Buttons: + ADD, DELETE, Save and exit

Adresse:

Messstelle:

Buttons: SAVE, Cancel

Click **ADD** and enter the addresses and names of the connected Batching Master.

After marking the Batching Master as “sealed” and the dongle is active (a padlock icon is shown in the column “sealed”), no changes at custody transfer settings are possible and custody transfer data are embedded in *.

As long the dongle is active, no new Batching Master could be market as custody transfer unit.

The serial numbers of the Batching Masters are discovered after closing the window and are displayed the next time.

To change the TAG-No. double click the line which you want to change.

2.3.2 System settings

Print on demand	N
Original document	Save
Option Terminal mode	N
Option Modbus-Slave function	N
Option Product selection	N
Storing of batch report as a copy into PDF file	N
Save occurred errors in the log file	N
Delete files after	90 days
MySQL DB	Y
Save CSV files automatically	N
Print width	80

Buttons: Clear DB, Save, Cancel

Print on demand (Y) or always (N).

If there is always a printout, choose in the next box to select whether the original document or a copy is printed. If the original document is stored, the copy is printed.

You can activate the options terminal mode (see section 2.3.6), the Modbus slave function (see section 2.3.5) and the product selection (see section 2.3.7).

A copy of the batch report can be stored as a PDF file.

Errors at the Batching Masters can be written into a log-file during the batch.

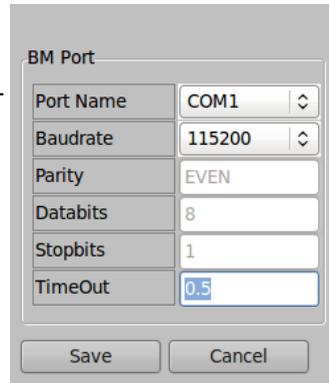
The data of the internal data base will be deleted after the registered number of days. If this value is set to 0 days the data will never be deleted.

The connection to an external MySQL data base (option, see section 2.3.11) can be activated.

The terminal mode, the Modbus slave function, product selection and the MySQL data base connection are options and must be agreed with the distribution before ordering.

2.3.3 Batching Master – Interface settings

You configure the interface for the connection to the Batching Masters in the menu BM Port. You can select between available serial COM-Ports, USB or LAN.



The screenshot shows the 'BM Port' configuration dialog box. It contains the following fields and values:

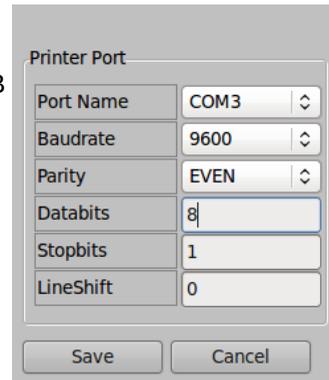
BM Port	
Port Name	COM1
Baudrate	115200
Parity	EVEN
Databits	8
Stopbits	1
TimeOut	0.5

At the bottom of the dialog are two buttons: 'Save' and 'Cancel'.

2.3.4 Printer – interface settings

You configure all parameters of the printer interface in the menu printer port. You can select between available serial COM-Ports, USB or LAN.

Spaces at the left side of the paper are specified with LineShift.



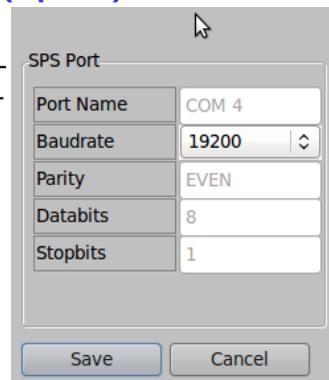
The screenshot shows the 'Printer Port' configuration dialog box. It contains the following fields and values:

Printer Port	
Port Name	COM3
Baudrate	9600
Parity	EVEN
Databits	8
Stopbits	1
LineShift	0

At the bottom of the dialog are two buttons: 'Save' and 'Cancel'.

2.3.5 Modbus Slave Port – settings (Option)

You set the baud rate of the Modbus slave interface. All other settings are fixed. The supervisory system (e. g. PLC) can only read (Modbus function 03) 17 fixed Modbus register listed in the following table.



The screenshot shows the 'SPS Port' configuration dialog box. It contains the following fields and values:

SPS Port	
Port Name	COM 4
Baudrate	19200
Parity	EVEN
Databits	8
Stopbits	1

At the bottom of the dialog are two buttons: 'Save' and 'Cancel'.

Modbus Register	Description
1	Device Number LSW
2	Device Number MSW
3	Totaliser LSW
4	Totaliser MSW
5	Actual flow LSW
6	Actual flow MSW
7	Batched quantity LSW
8	Batched quantity MSW
9	Preselected Value LSW
10	Preselected Value MSW
11	Batch status
12	Analogue output (0 – 10000 equates 4 – 20 mA)
13	Batch number LSW
14	Batch number MSW
15	Error bits 0-15 (Batching Master register 5)
16	Error bits 16-31 (Batching Master register 6)
17	Batch active message

Additionally it can be accessed on all Modbus registers of the Batching Master specified for function 06 with the Modbus function 06. This can be used e. g. for register 58 (Start), 59 (stop) or 500 (terminal function).

2.3.6 Terminal-Modus (Option)

You can require up to 10 data by the user prior to the batch with the terminal function. For example stock no., Product no., User no. or others can be requested, printed and stored in the data base after the batch.

For using the terminal mode the Batching Master terminal mode must be active. Press the RC-key of the Batching Master to start the terminal mode. The required inputs have to be done before you can start the batch.

In **General settings** the question text for the preselection is set.

The minimum input length of the answers can be supervised.

If the questions for all units are the same, select the second check box.

Starting up PCC-Batching Master

General settings | Questions Ver1 | Questions Ver2 | Questions B0257 | Questions Bahn

Text for preselection.

Monitoring min. input length.

Same question texts for all devices.

Save Close

In the further riders each question text and the minimum length for the answer are defined.

General settings | Questions Ver1 | Questions Ver2 | Questions B0257 | Questions Bahn

Question	Text	Min. input length.
Question 1	<input type="text" value="Batch No.:"/>	<input type="text" value="3"/>
Question 2	<input type="text" value="Order No.:"/>	<input type="text" value="4"/>
Question 3	<input type="text" value="Product No.:"/>	<input type="text" value="5"/>
Question 4	<input type="text"/>	<input type="text"/>
Question 5	<input type="text"/>	<input type="text"/>
Question 6	<input type="text"/>	<input type="text"/>
Question 7	<input type="text"/>	<input type="text"/>
Question 8	<input type="text"/>	<input type="text"/>
Question 9	<input type="text"/>	<input type="text"/>
Question 10	<input type="text"/>	<input type="text"/>

Save Close

2.3.7 Product selection (option)

For product selection the Batching Master terminal function has to be active. Additionally a relay module is needed for each Batching Master. The relay module is preconfigured by us and operates at the same RS485 bus as the Batching Masters. The relays switch the different product channels

The text for product selection is defined in the tab **general settings**. The confirmation text with the product name is shown after selection.

In the next field the text for preselection is requested.

The switch-on of the relay contact (DO) are made in the next two sets. The switch-on point DO defined whether the contact is active: After Start, after SET or after product selection. The switch-on duration DO can be over the whole batch or only during the started batch (b in the left side of the display).

You can activate a watchdog in the relay modules. If the watchdog is active, the settings must be done in the last two input fields.

Specify the Modbus address of the relay module in the further riders (products for xxxx) . The TAG number (see section 2.3.1) is shown in the selected tab (here e. g. products for 52F1170).

Starting up PCC-Batching Master

Enter the product name in the yellow fields. If don't not all product channels, leave unneeded fields blank. Then this product cannot be selected.

Product	Product Name	Modbus address of the relay module
Product 1	Produkt 1	Ex9067D-M: 201
Product 2	Produkt 2	
Product 3	Produkt 3	
Product 4	Produkt 4	
Product 5	Produkt 5	
Product 6	Produkt 6	
Product 7	Produkt 7	
Product 8	Produkt 8	Ex9067D-M:
Product 9	Produkt 9	
Product 10	Wasser	
Product 11	Produkt 11	
Product 12	Produkt 12	
Product 13	Produkt 13	
Product 14	Produkt 14	

In order to start a batch, you press the Batching Master key [RC] first. The text of request is indicated at the Batching Master. After entering a value between 1 to 16 (limited by the number of products) with [SET], the selected product name is indicated for confirming. The confirmation text is indicated in the upper line, the in “Products” stored product is indicated in the lower line. After confirming with [SET] the question text for preselect value appears in the upper line. After the input of the preselect value in the lower line with [SET] the associated relay for this product is active. The Batching Master switches from terminal mode to the batch mode. Start the batch with [START].

The information about the selected product is printed and stored in the data base after the batch.

2.3.8 Error-Log file

Occurred errors on the Batching Masters can be stored in the data base and/or printed.

Error messages can be printed on the printer for custody transfer protocols or on other printers.

Please mark “database only” if only storing in the data base is required.

Set the maximum printable character per line (e. g. 40 for POS printer).

The data will be deleted after the registered number of days. If 0 days is set, the data will be not deleted.

The screenshot shows the 'Error text' tab with the following settings:

- Output of error text at...:**
 - Printer for document printing at COM3
 - Printer at COM4 (with a 'Settings of COM4' button)
 - database only
- Feature of error printer:**
 - Number of characters per line:
- Database clean up—**
 - Delete database entries that are older than: days

Buttons: Save, Close

The screenshot shows the 'Batch text' tab with the following settings:

Error-No.	Error description	Print?
1	EEProm failure	<input checked="" type="checkbox"/>
2	Sensor break pulse input 1	<input checked="" type="checkbox"/>
3	Sensor break pulse input 2	<input checked="" type="checkbox"/>
4	Sensor break mA-input 1	<input checked="" type="checkbox"/>
5	Sensor break mA-input 2	<input checked="" type="checkbox"/>
6	Sensor break mA-input 3	<input checked="" type="checkbox"/>
7	Range overrun mA-input 1	<input checked="" type="checkbox"/>
8	Range overrun mA-input 2	<input checked="" type="checkbox"/>
9	Range overrun mA-input 3	<input checked="" type="checkbox"/>
10	N.U.	<input checked="" type="checkbox"/>
11	Error min-flow	<input checked="" type="checkbox"/>
12	Error flow sensor	<input checked="" type="checkbox"/>
13	No release 1	<input checked="" type="checkbox"/>
14	No release 2	<input checked="" type="checkbox"/>
15	Error over-filling	<input checked="" type="checkbox"/>
16	Emergency stop	<input checked="" type="checkbox"/>
17	Printer failure	<input checked="" type="checkbox"/>
18	Pre-set too low	<input checked="" type="checkbox"/>
19	Pre-set too high	<input checked="" type="checkbox"/>
20	Failure double pulses	<input checked="" type="checkbox"/>
21		<input checked="" type="checkbox"/>
22	Interface failure, No confirmation	<input checked="" type="checkbox"/>
23	Printer busy	<input checked="" type="checkbox"/>
24	No paper	<input checked="" type="checkbox"/>
25	No product selected	<input checked="" type="checkbox"/>
26	extendend area crc bad	<input checked="" type="checkbox"/>
27	Error API calculation	<input checked="" type="checkbox"/>
28	External sensor error	<input checked="" type="checkbox"/>
29	Valve is not open	<input checked="" type="checkbox"/>
30	Valve is not closed	<input checked="" type="checkbox"/>
31	not exists	<input checked="" type="checkbox"/>
32	not exists	<input checked="" type="checkbox"/>

Error status text

Text if error is active:

Text if error is not active:

Buttons: Restore default text, Save, Close

You can enter the error event details in the next tab. So you are able to customise the language. Remove the hook in the right column if the error shall not be printed.

The last tab is used for batch text input.

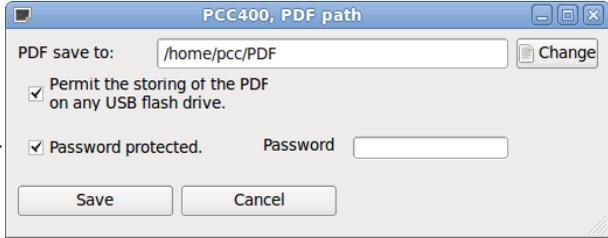
The screenshot shows the 'Batch text' tab with the following settings:

	Batch text	Print?
1	Batch started test	<input checked="" type="checkbox"/>
2	Batch interrupted 2	<input checked="" type="checkbox"/>
3	Batch finished 3	<input checked="" type="checkbox"/>

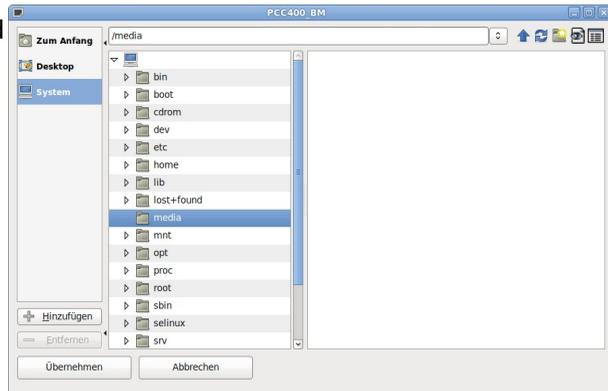
Buttons: Restore default text, Save, Close

2.3.9 Storing the batch report as a copy into a PDF file

After you set this function in the system settings to YES, the storage place for the PDF files is requested. USB-Storage-Devices are also possible.



If no USB-Storage-Device is plugged in, the PDF files are stored in the PCC temporarily. After plugging a USB-Storage-Device in all available PDF files are moved on the USB-Storage and deleted in the PCC.



If the password protection is activated for USB-Storage-Device, the USB-Storage must be prepared for the storage.

Prepare a folder or a file for this with the name of the registered password (no endings such as txt). The reports are written into the folder "PDF" of the USB-Storage.

2.3.10 Password

You should change the standard password (password) to a private password. Please keep the password safe carefully, because we don't have any possibility of resetting this password.



After the password was entered correctly, one can carry out petitions without renewed password input also in other menu items for five minutes. The password must be entered once more only after this time.

2.3.11 MySQL Data base connection (option)

An external MySQL database can be connected to the PCC 400 on request. The determined values and informations are written in the database after every batch. For this the following attitudes must be carried out:

Menu Settings / System Settings: set MySQL DB to „Y“
Menu Settings: choose MySQL DB

The following windows opens:

The system informations of your MySQL database must be typed in here. Please ask your responsible administrator.

The MySQL administrator has to lay out the database name, the login name and the password for the database. The tables are produced by the PCC automatically in the MySQL database. The PCC can write only in the database.

The user PCC needs the following rights for some schemes:

PCC database (e. g. pcc400)	Select, Insert, Update, Delete, Create
information_schema	Select

Please clarify the database connection and the exact function with our sales employees before the order.

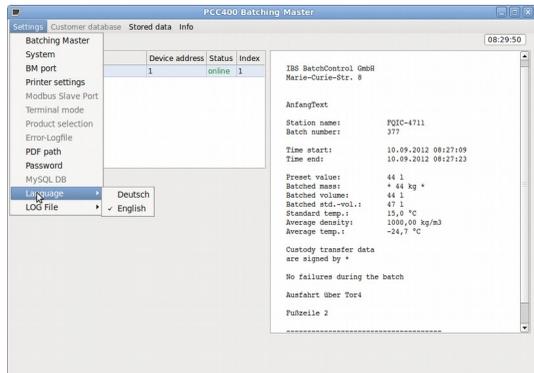
For every batch the following column names exist:

Column name	Data type	Description
id	int(11)	Primary key auto increment
TAG_number	varchar(20)	
Batch_Number	int(6)	
Batch_Start	datetime	
Batch_End	datetime	
Preset_Value	varchar(25)	
Batched_Mass	varchar(25)	
Batched_Volume	varchar(25)	
Batched_St_Volume	varchar(25)	Batched standard volume
Ref_Temp	varchar(25)	Standard temperature
AvDensity	varchar(25)	Average density

Column name	Data type	Description
AvTemp	varchar(25)	Average temperature
Product	varchar(32)	Selected product
Input1	varchar(32)	Input 1 (terminal function)
Input2	varchar(32)	Input 2 (terminal function)
Input3	varchar(32)	Input 3 (terminal function)
Input4	varchar(32)	Input 4 (terminal function)
Input5	varchar(32)	Input 5 (terminal function)
Input6	varchar(32)	Input 6 (terminal function)
Input7	varchar(32)	Input 7 (terminal function)
Input8	varchar(32)	Input 8 (terminal function)
Input9	varchar(32)	Input 9 (terminal function)
Input10	varchar(32)	Input 10 (terminal function)

2.3.12 Language

You can set the language directly to German or English.



2.3.13 Log file

A log file for our developers can be produced. The following attitudes are possible:

- write
- do not write
- delete.

In the delivery state no log file is written. Please switch this over only according to consultation with us.

2.4 Stored data



The menu stored data opens a new window with the choice possibility to show printouts and database.

2.4.1 Show printouts

Name	Größe	Zuletzt geändert
20110315-Station-17A1-19	1 K	15.03.2011 14:14:13
20110315-Station-17A1-20	1 K	15.03.2011 14:14:37
20110315-Station-17A1-21	1 K	15.03.2011 14:15:58
20110315-Station-17A1-22	1 K	15.03.2011 14:37:17
20110315-Station-17A1-23	1 K	15.03.2011 14:38:38
20110315-Station-17A1-24	1 K	15.03.2011 14:50:53

Product: Natronl. 10-50 %
 Station name: Station-17A1
 Batch number: 24
 Time start: 15.03.2011 14:50:40
 Time end: 15.03.2011 14:50:53
 Preset value: 250 kg
 Batched mass: 250 kg
 Custody transfer data are signed by *
 No failures during the batch

Filtering data
 All Station name
 Date from to

use filter

Print original
 Print copy

The existing pieces of evidence are listed on the left. The file name is formed automatically by the date (YYYYMMDD), the station name and the serial batch number of this station:

e. g. 20090430-NAME-480

Select the desired batch with the mouse.

The content of the file are announced at the right window and can be printed. By pressing print original the original document is printed. With print copy a copy of the original is printed. “duplicate” is published at the copy in the topmost line.

As soon as an original was printed, the original file is indicated as duplicate (e. g. 20090430-NAME-480-duplicate) and “duplicate” is published at the topmost line. A new original cannot be printed any more.

To find the sought-after piece of evidence faster, the data can be filtered for TAG-number or date.

2.4.2 Database – Batches

To find the sought-after piece of evidence faster, the data can be filtered for TAG-number or date. All information of the last batches is announced in tabular form. The selected batches can then be exported or opened as a Calc table.

Station name	Batch number	Start time	End time	Preset value	Batched quantity	Batched volume	Product	ID
52F1170	1229	20.11.2014 09:18:55	20.11.2014 09:18:55	100 kg	101 kg			5
52F1170	1230	24.11.2014 13:13:13	24.11.2014 13:13:39	550 kg	551 kg		Produkt 6	6
52F1170	1239	25.11.2014 13:46:21	25.11.2014 13:46:28	30 kg	31 kg		Produkt 9	7
52F1170	1247	26.11.2014 10:40:25	26.11.2014 10:40:31	25 kg	26 kg		Produkt 4	8
52F1170	1259	01.12.2014 13:27:01	01.12.2014 13:27:07	30 kg	31 kg		Produkt 6	9
52F1170	1260	02.12.2014 10:10:56	02.12.2014 10:11:04	36 kg	37 kg		Produkt 6	10
52F1170	1261	02.12.2014 10:19:13	02.12.2014 10:19:20	36 kg	37 kg		Produkt 3	11
52F1170	1262	02.12.2014 10:20:11	02.12.2014 10:20:19	65 kg	66 kg		Wasser	12
52F1170	1263	02.12.2014 10:21:15	02.12.2014 10:21:23	47 kg	48 kg		Produkt 2	13
52F1170	1264	02.12.2014 11:25:56	02.12.2014 11:26:02	28 kg	29 kg		Produkt 6	14
52F1170	1265	02.12.2014 11:32:26	02.12.2014 11:32:33	35 kg	36 kg		Produkt 9	15
52F1170	1266	02.12.2014 11:37:54	02.12.2014 11:38:03	65 kg	66 kg		Produkt 9	16
52F1170	1267	02.12.2014 13:25:46	02.12.2014 13:25:53	35 kg	36 kg		Produkt 1	17
52F1170	1268	02.12.2014 13:26:10	02.12.2014 13:26:19	80 kg	81 kg		Produkt 9	18

If you have selected a batch with the mouse click, you can by the same window double-click as in case of “stored documents” open and print the piece of evidence directly.

2.4.3 Database – Occurred Errors

All faults appeared to the Batching Masters are listed here.

ID	Batch station	Batch number	Time	Text
335	FQTR-1	391	08.08.2011 11:23:50	OFF-Schalter betätigt - Fehler nicht aktiv
336	FQTR-1	391	08.08.2011 11:24:12	OFF-Schalter betätigt - Fehler aktiv

Filtering data

All Station name

Date from to

If the Batching Master faults have been removed by the operator very fast, it can happen that this isn't listed since the system needs a little time, particularly if several Batching Masters are attached, to poll all Batching Masters on continuously.

The entries in the data base can be sorted by ID, batch station, batch number and time. After this you can export the selected batches or open this as a Calc table.

2.5 Info menu

2.5.1 PCC 400 info

Informations of software version and checksum are shown.



2.5.2 Print BM info

A list with PCC 400 software version and all connected Batching Masters including the software version and checksum (decimal and HEX) over all metrological relevant data is printed.

