# Intelligent Batch Solutions........designed for you

PCC 400 - Communication and data storage solutions for loading terminals

- **Printing of custody transfer loading protocols**

- **Storage device for the batch results and reports**

- **Communication possibilities to other systems or data bases**

- **Available for the Batching Master 110i/210i and the BC 20**

- **Realization of customer specific projects like the printing of labels or delivery papers.**

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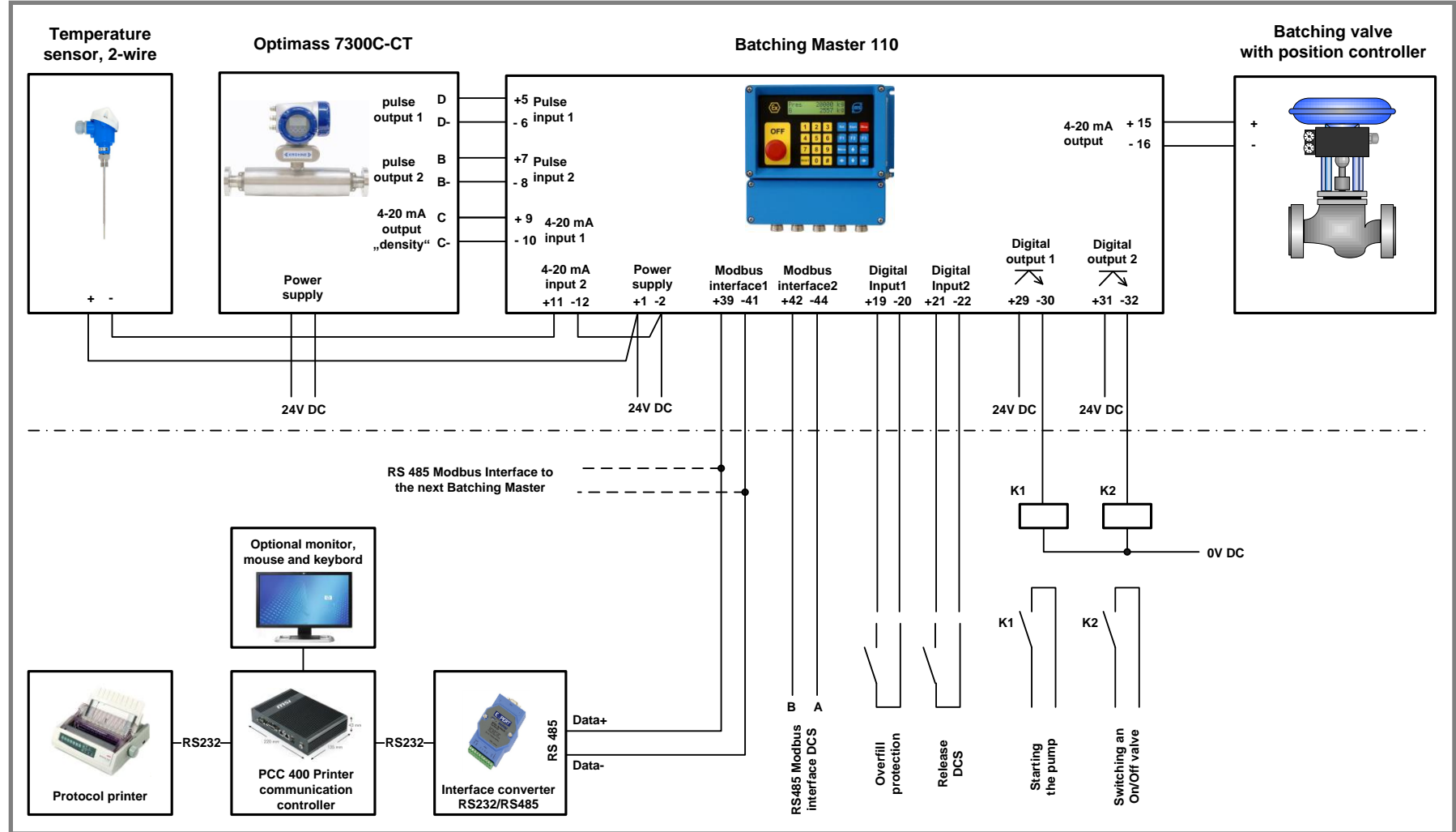# Intelligent Batch Solutions........designed for you
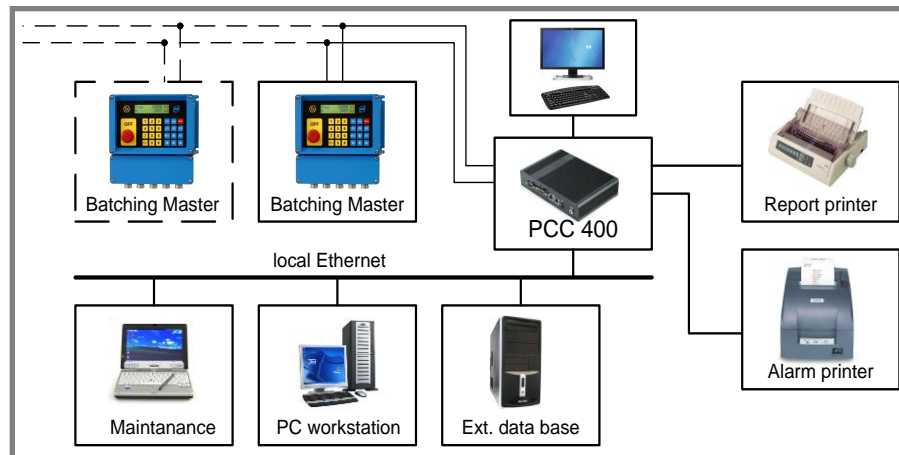
Functionalities of the PCC 400:

- **Printout and storage of the custody transfer batch protocols**

- **Storage of the loading protocols as PDF-files or as CSV-files**

- **Internal data base for the storage of the batching information with filter function and an export functionality to CSV-files**

- **Event protocol with alarm messages and status information**

- **Modbus slave interface at COM 4 for the transfer of the main information from the batch controllers to a DCS.**

- **Communication to MySQL databases in order to read the order information and to write the loading information after the batch. (optional)**

- **Communication to Terminal Automation Systems. The TAS writes a file for each loading into the PCC 400 drive and the PCC 400 delivers a file with the loading information after the batch (optional)**

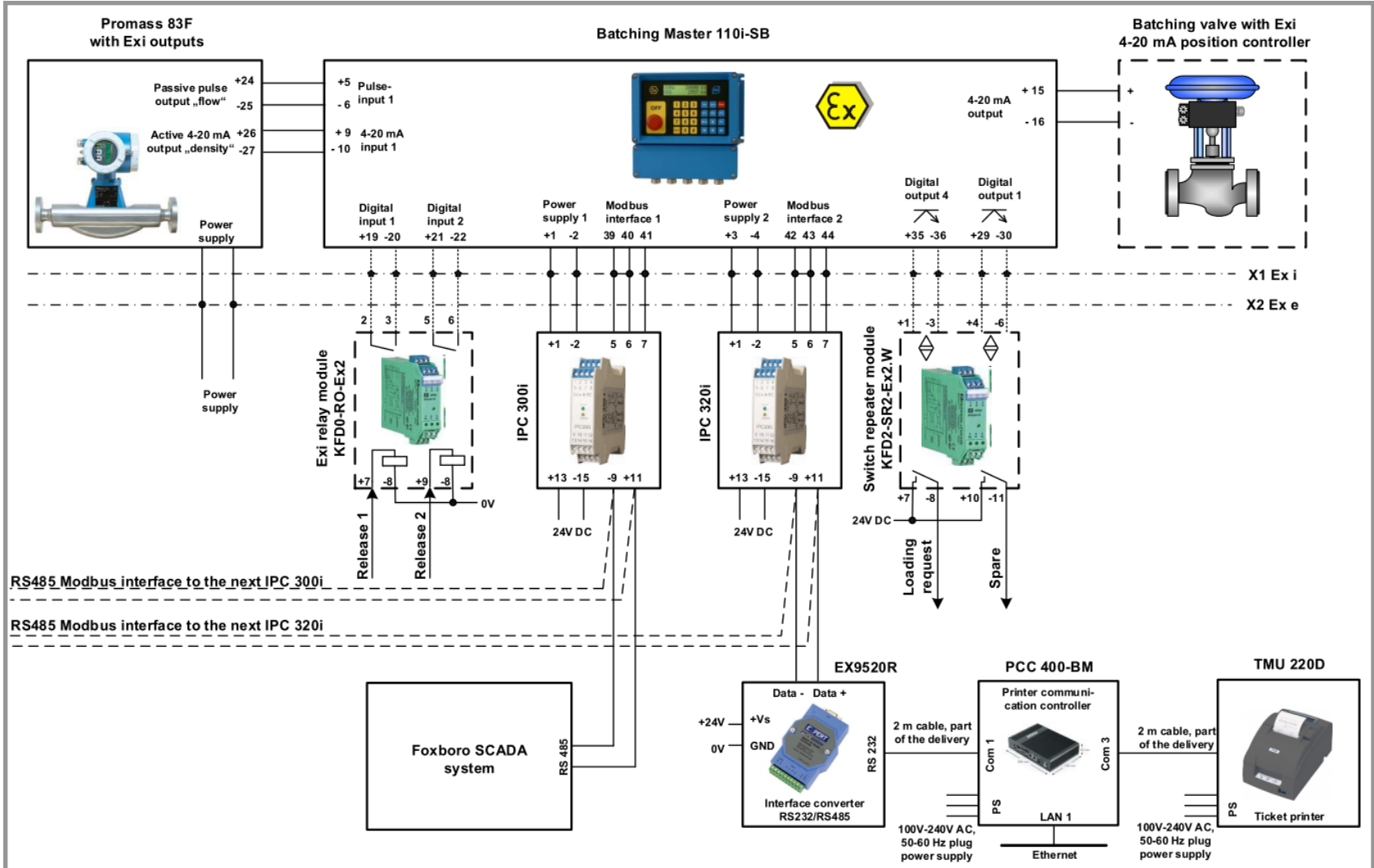- **Custody transfer proofed conform MI005**

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Connection example to a non-Ex Batching Master 110:

Connection example to an Exi Batching Master 110i:

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Connection example to the BC 20:
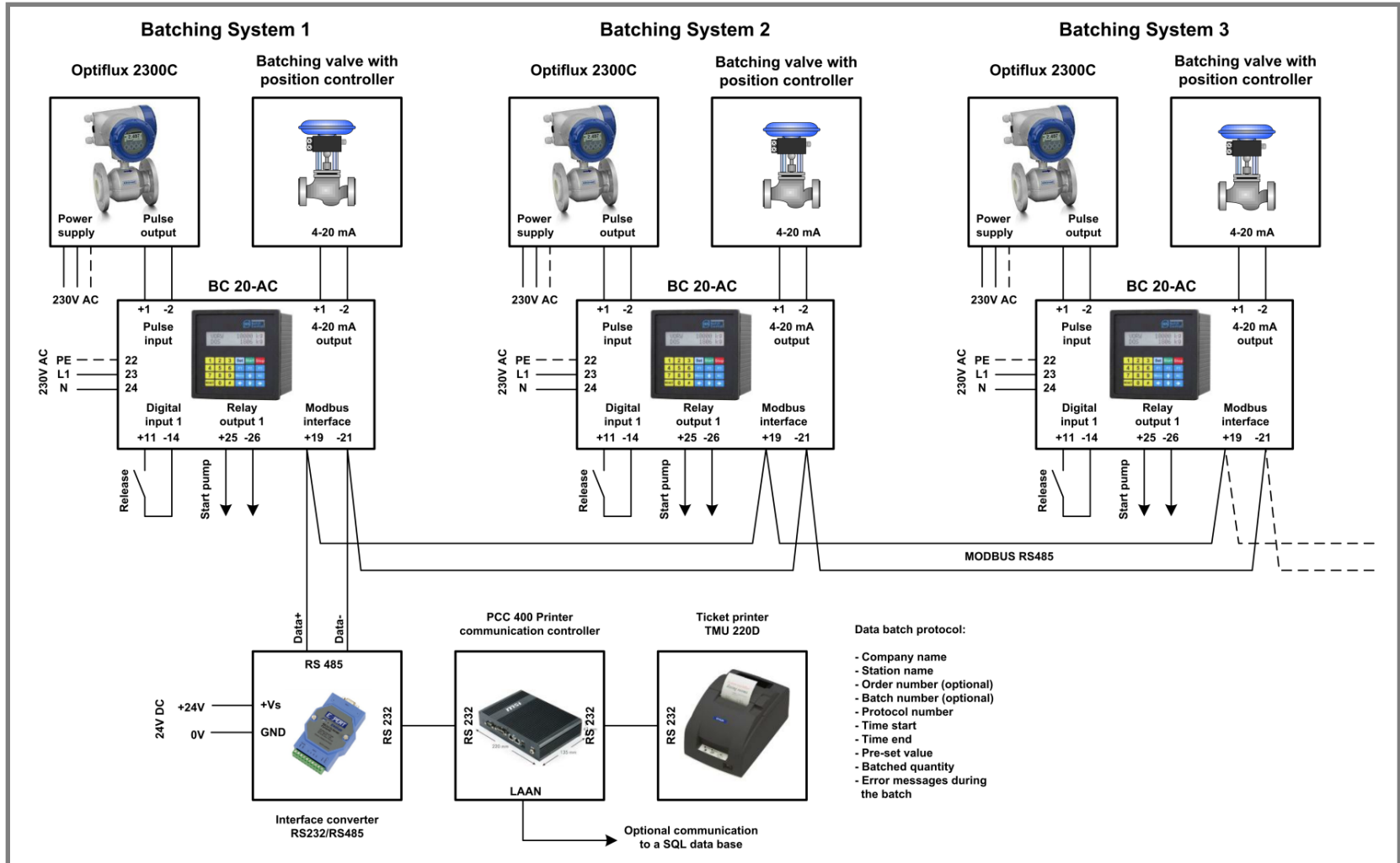
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Terminal function (optional):

The PCC 400 controls the LCD indication of the batch controllers in order to show question texts before the batch. The operator is able to enter the information and to start the batch. The entered information will stored and shown in the batch protocols.

```
Order No.:
50012345
```

```
Operator No.:
5001
```


Terminal mode			
General settings	Questions FQIC-4711	Questions FQIC-1008	Questions FQIC-1009	Questions FQIC-2008

Question 1	Order No.:	Min. input length.	8
Question 2	Operator:	Min. input length.	4
Question 3		Min. input length.	
Question 4		Min. input length.	
Question 5		Min. input length.	
Question 6		Min. input length.	
Question 7		Min. input length.	
Question 8		Min. input length.	
Question 9		Min. input length.	
Question 10		Min. input length.	

Save   Close

```
IBS Chemicals GmbH
Marie-Curie-Str. 8
50170 Kerpen

Methanol Loading

Order No.:          50012345
Operator:           5001

Station name:       FQIC-4711
Batch number:       806

Time start:         15.06.2012 14:49:01
Time end:           15.06.2012 14:49:52

Preset value:       20,00 t
Batched mass:       20,00 t
Batched volume:     25,00 m3
Batched std.-vol.:  24,76 m3
Standard temp.:     15,0 °C
Average density:    800,00 kg/m3

Custody transfer data
are signed by *

No failures during the batch

Leave company via entry port 4
```
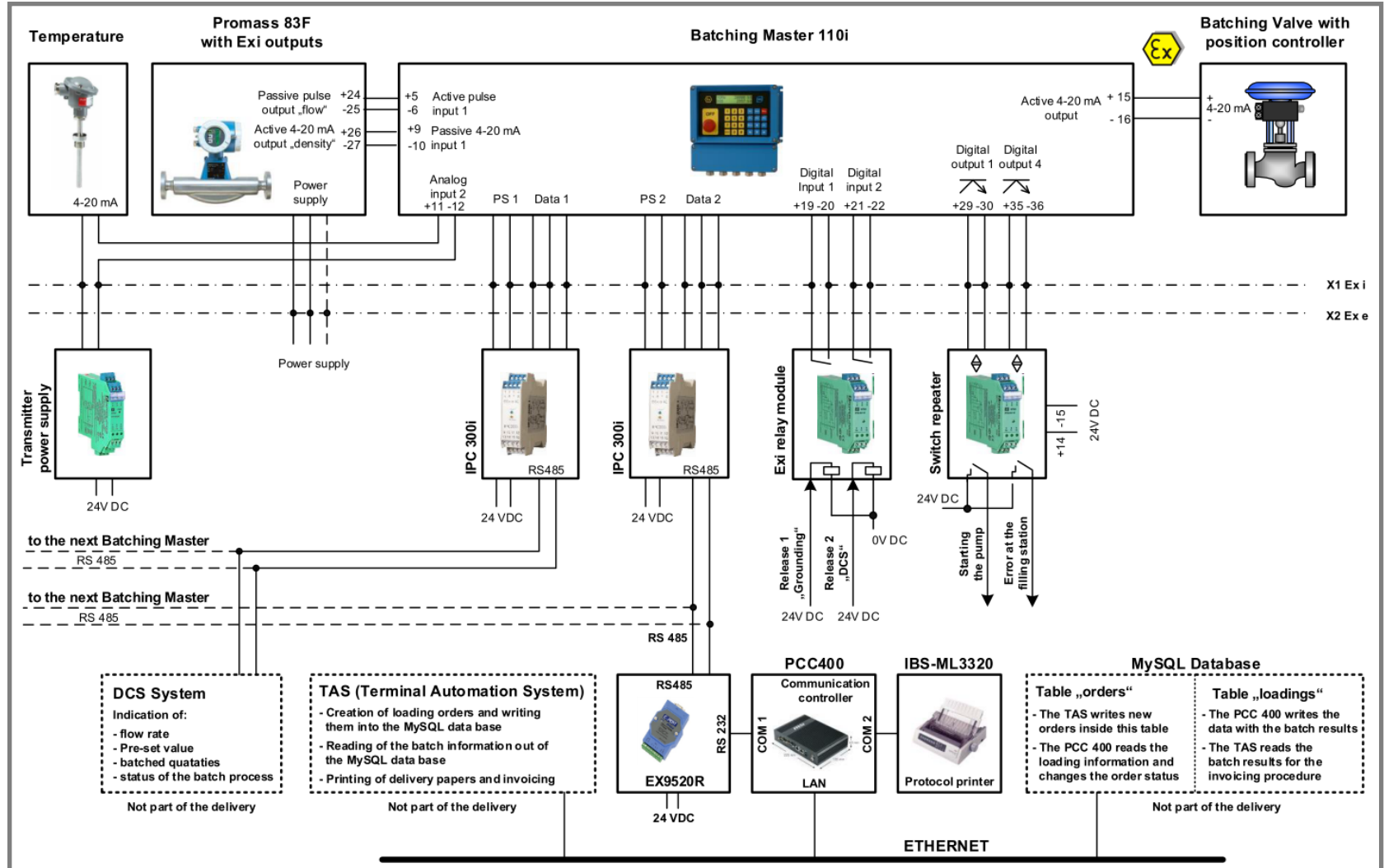
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Product way selection at the batch controller before the start (optional)

The selected product way will be switched by Modbus relay modules.
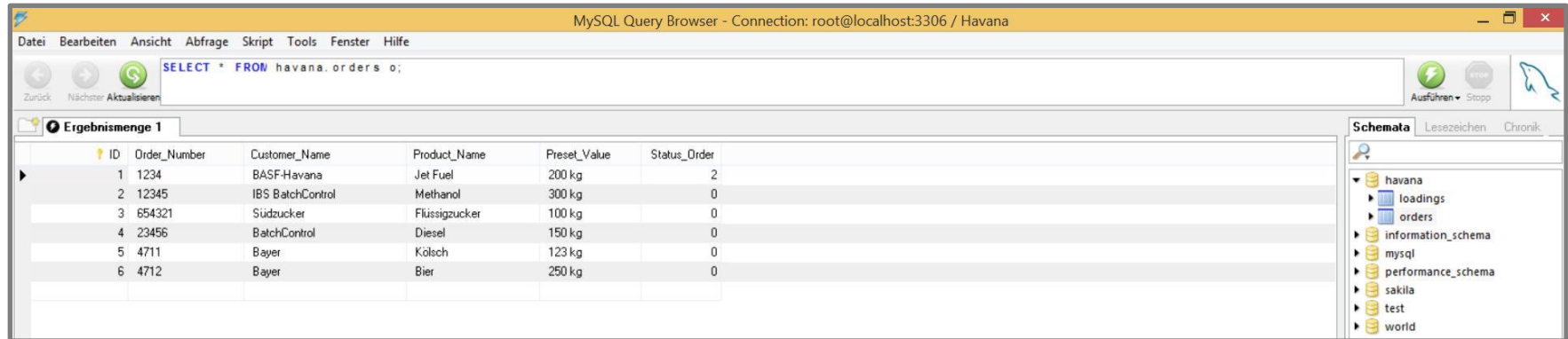
SELECT PRODUCT!
F1 = METHANOL

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MYSQL database communication of the PCC 400 (optional):

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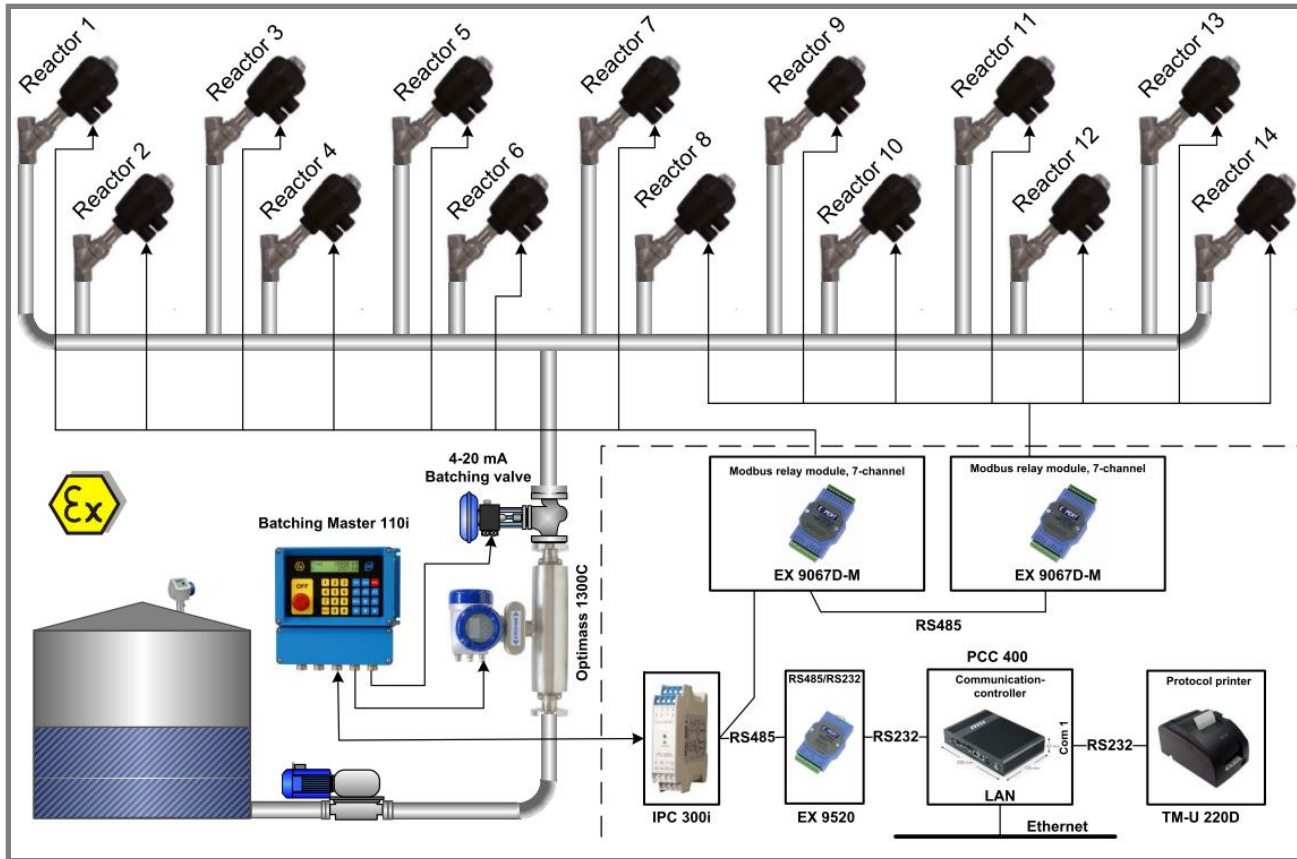
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MYSQL database communication of the PCC 400 (optional):
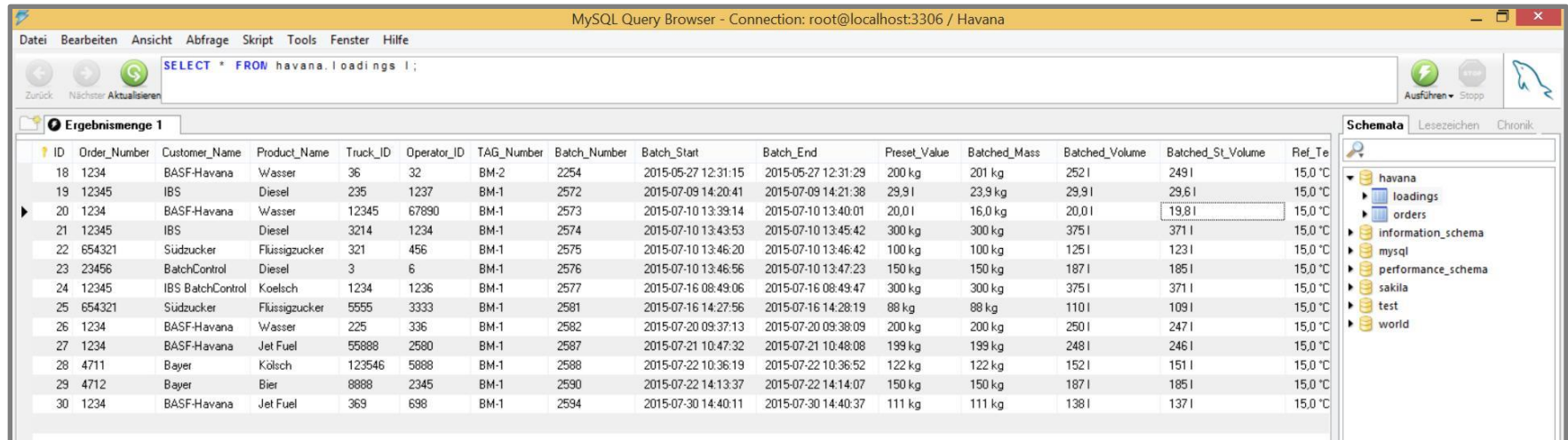
Table "orders" in the MySQL data base:

Table "loadings" in the MySQL data base:

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MYSQL database communication of the PCC 400 (optional):

- Information exchange between the order management software (TAS) and the operator at the batch controller at the loading terminal.
- The operation at the Batching Master 110i/210i is controlled by the PCC 400.
- Access control of the trucks at the loading terminals.
- Important loading information will be shown in the field.
- At the end of the batch all information will be written back to the MySQL database

Operation procedure at the Batch controllers:

```
Enter Order No.:    Customer:           Product name:
Set=Confirmation    IBC Chemicals       Methanol

Truck ID:           Pres:___15000 kg    Pres:___14850 kg
120005321           Set=OK, F3=New      Set=Confirmation
```

MySQL table "orders":

- Order number
- Customer name
- Product name
- Status of the order
  0 = order open
  1 = order in use
  2 = order completed

MySQL table "loadings", written by the PCC 400:

- Order number
- Customer name
- Product name
- Truck ID
- Operator ID
- TAG number
- Batch number
- Batch start time
- Batch end time
- Pre-set value
- Batched mass
- Batched volume
- Batched standard-volume
- Reference temperature
- Average density
- Average temperature

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Main window of the PCC 400 software

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Status of the connected batch controllers

The last Loading protocols are shown at the right part of the software

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Configuration of the loading protocol

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Text blocks at the beginning of the loading protocol

Activation of the different possible batch information for the printout

Text blocks at the end of he loading protocol

These texts can be modified, e.g. for the translation into the local language

The marked information will be shown between stars in the printout (* 20.000 kg *) Which means, that the information is custody transfer proofed.

PCC400 configuration of the printout text

Header
IBS Chemicals GmbH
Marie-Curie-Str. 8
50170 Kerpen

Cancel

Save

Beginning text
Methanol Loading

☐ Benutzerdefiniertetexte lesen (Reg. 301-400)

text for FQIC-4711

Print	Text	Metrological relevant
☑	Station name:	
☑	Batch number:	
☑	Time start:	
☑	Time end:	
☑	Preset value:	
☑	Batched mass:	☑
☑	Batched volume:	☐
☐	Batched std.-vol.:	☐
☐	Standard temp.:	☐
☑	Average density:	☐
☐	Average temp.:	☐

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:

Final text
Leave company via entry port 4

Footer

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Indication of the stored loading protocols:

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List of the stored batch protocols

Filter function by station name, date and time

The selected loading protocol is shown at the right side of the software

Print a copy or an original

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Internal data base of the batch information with export function to CSV files:

Log file of the errors and status changes at the batch controllers:

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These error message texts can be modified, e.g. for the translation into local language

The selected messages can be printed on request and they can be exported to CSV files

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Some of our Main Clients:

3M, France, Germany

Abbot, USA, Germany
Air Liquide, France, Germany,
Aker Kvaerner, The Netherlands
Akzo Nobel, China, The Netherlands, Germany
Arkema, France, Germany
Astra Zeneca, England

BASF, Belgium, Malaysia, Mexico, China, Germany
Bayer, Malaysia, Spain, Vietnam, Germany
Basell, Germany
British American Tobacco, Germany
Butagaz, France

Clariant, China, Greece, Switzerland, Germany
Ciba, Italy, France, Switzerland, Germany
Christ Water Technology, Germany
Cognis, Germany

Degussa, Belgium, Germany
Dupont, Germany
DSM, The Netherlands, Austria, Germany

Endress+Hauser, worldwide
Emerson, worldwide
Exxon, France, The Netherlands

GlaxoSmithKline, Great Britain, Italy
Kraus Global, Kanada, Korea

KANEX, Russia, Ukraine
Krohne Messtechnik, worldwide

Lanxess, Germany
Linde, Germany
Lukoil, Ukraine
Lurgi, Germany

Merck, Germany
Novartis, Switzerland, Germany

Oiltanking, Belgium
Oval Asia, Singapore

Petroleos de Venezuela, Cuba
Petrobras, Brazil

Rhodia, France, Germany
Roche, Switzerland, Germany

Sanofi-Aventis, France, Germany
Sipchem, Saudi Arabia
Shell, Germany
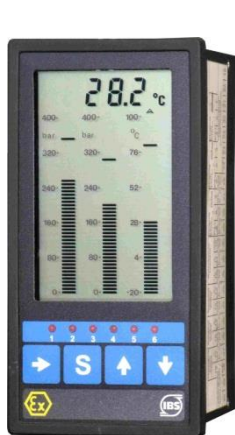**Symrise, Germany**

Tecnicas Reunidas, Spain
Total, France
Toyo Engineering, Japan

Uhde, China, Egypt, Ukraine, Germany

Vopak Banyan Terminals, Singapore

Wacker Chemie, China, India, Germany

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Indicators

PID Controllers

Batch Controllers

Exi Interfaces

Process Recorders

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