DEZIDATA Transport Vehicle Equipment GmbH
Industriestr.10
D-94469 Deggendorf
http://www.dezidata-tve.de
FON: +49-991-29090-0
FAX: +49-991-29090-29

User Guide

Measuring System DEZICHEM 2

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Author(s):
- Thomas Krinninger
- Manolo Müller Menendez

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Translation: Sandra Anwander

DEZIDATA Transport Vehicle Equipment GmbH
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D-94469 Deggendorf
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FON: +49-991-29090-0
FAX: +49-991-29090-29

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1 General Notes

The measuring system DEZICHEM 2® was especially developed for the distribution of chemical liquids and AdBlue®. There are two system types: „DEZICHEM 2 fully drainable“ and „DEZICHEM 2 AdBlue“.

The following document describes both types.

The system satisfies the criteria of the quality control guideline AUS32 according to the norm 70070 of the AdBlue producers (AGU).

It was controlled by the PTB in the context of the EC guideline 2004/22/EG.

EC type examination certificate no. **DE-14-MI005-PTB022**

The directive 2004/22/EG of the European Parliament and Council dated 31 March 2004 concerning measuring instruments (ABI. L 135 S. 1) – last change by guideline 2009/137/EG dated 10 November 2009 – applies for the systems mentioned in the certificate.

The following documents are included:

- Annex I „Essential Requirements“
- Annex MI-005 „Measuring systems for the continuous and dynamic measurement of quantities of liquids other than water“

Depending on the configuration, the measuring system can be used for the delivery of

chemical liquids with a maximum viscosity of 120mPa.s, a minimum conductibility of 5µS/cm and a maximum flow rate of 400l/min

or the delivery of

AdBlue® with a maximum viscosity of 20mPa.s, a minimum conductibility of 5µS/cm, and a maximum flow rate of 670l/min.

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2 Main Menu

2.1 General Notes

Turn on the system and wait until the system is completely booted up. The current state of the charging process is displayed on the DEZITOUCH screen.

Additionally, provide the necessary discharge pressure (at least 1 bar).

2.2 Meaning of the Function Keys

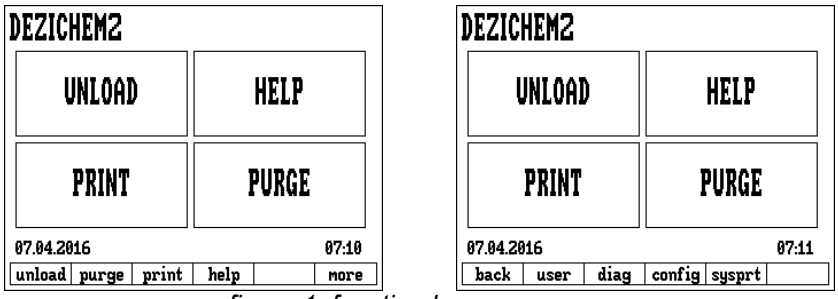

figure 1: function keys

unload	start measurement
purge	start water purging (cleaning of the system)
print	print delivery notes or journal documents
help	call for the short user guide on the display
more	change to next menu bar
eser	menu system configuration (see service guide)
diag	menu diagnosis (see service guide)
config	menu system configuration (changes are password protected, see service guide)
sysprt	print system specific data and calibration parameters

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3 Unloading

3.1 Preparation

Connect the inlet of the measuring system (via pump if necessary) with the desired tank compartment.
Then, connect the measuring system with the customer tank (dry hose or wet hose).

Unloading is started by choosing **unload** on the DEZITOUCH or by pressing **key [A]**.

3.2 Unloading Screen

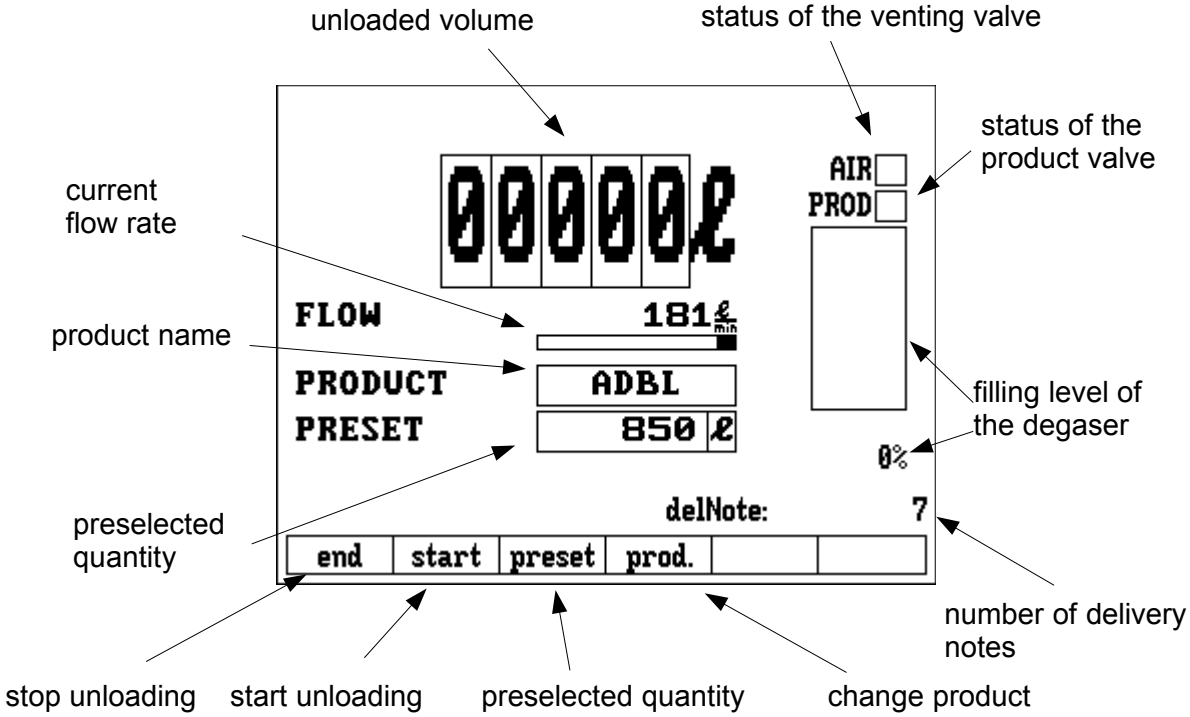

figure 2: overview unloading menu

unloaded volume	unloaded volume at ambient temperature in liters
current flow rate	current flow rate in liters per minute
preselected quantity	currently chosen preselected quantity (see 3.3 Preselected Quantity)
status of the venting valve	activated valve is black
status of the product valve	activated valve is black
product name	name of the product that is unloaded (see 3.4 Product Selection)
unloading time	time since unloading has started
filling level of the degaser	percentage and graph of filling level of the degaser
number of delivery note	number of delivery notes of the current unloading
function keys	function of keys is described below

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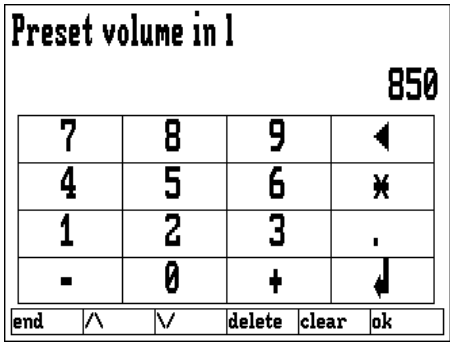
3.3 Preset Quantity

By choosing **preset – key [C]** or by pressing the preset value on the touch screen, a preselected volume can be entered via the shown numeric keys on the touch screen.
When reaching the chosen preselected volume, unloading is automatically stopped and the product valve is closed.

The volume already entered must be deleted by pressing „<=“ or „Delete“.
If preselection is not desired, the value **0** has to be entered.

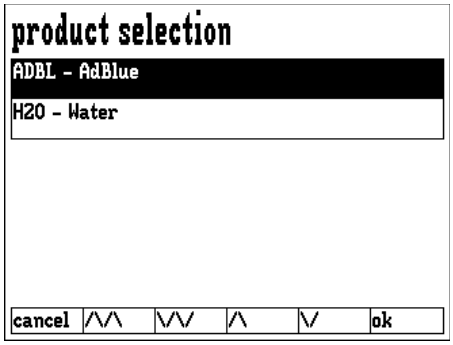


3.4 Product Selection

Press **prod. – key [D]** to see the product selection menu.
The product to be unloaded can be chosen there.

During the unloading process, the short description is displayed.

The complete product name is indicated on the delivery note.



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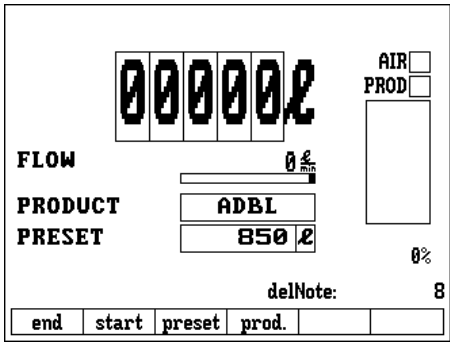
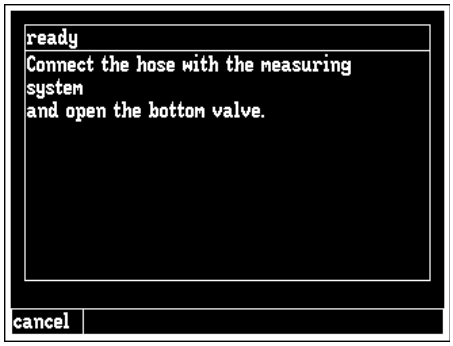
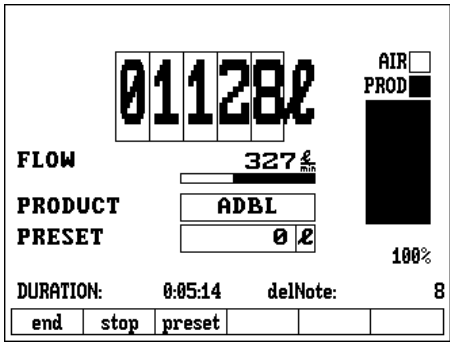
3.5 Starting of Measurement

By choosing **start – key [B]**, unloading is started and the venting valve is opened. ***Please make sure that a hose is connected and the system is connected to the customer tank.***	
Open the bottom valve of the compartment and – if necessary – the inlet valve of the measuring system in order to fill the measuring system or the degaser. If the degaser of the measuring system is filled, venting is stopped automatically and the display changes to the unloading overview automatically.	
After approx. 5 seconds, the unloading valve of the measuring system is opened automatically and unloading starts. If necessary, open an additional manual unloading valve. ***Attention:*** ***Do not open too much in case of small customer tanks!*** During unloading, the flow rate has to be monitored. If it exceeds the admissible range (see 1.General Notes), unloading is interrupted. Now, the flow rate can be reduced again.	

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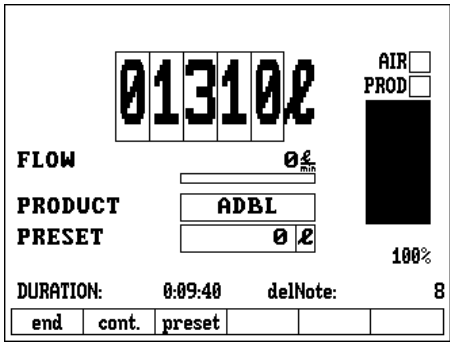
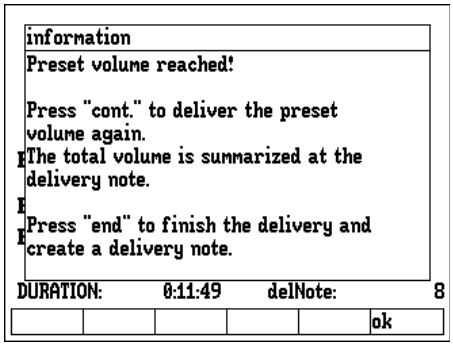
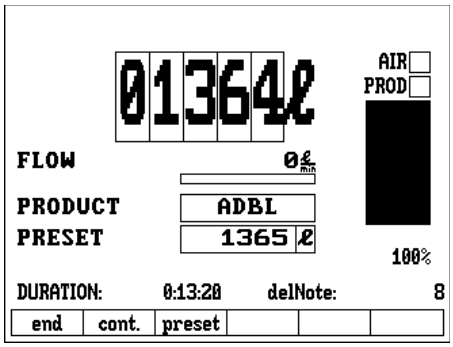
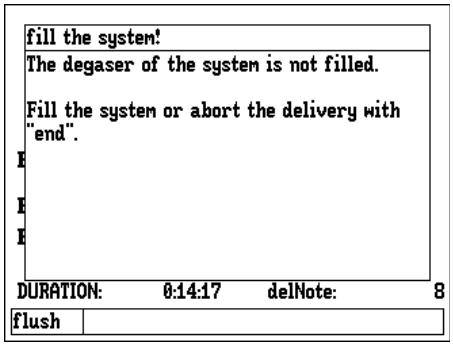
By pressing **end – key [A]**, the measurement may be stopped/paused in between. In order to do this, the unloading valve has to be closed and – if activated – the pump has to be stopped as well. Continue the measurement by pressing **cont. – key [B]**.	
If the preset quantity is reached, the system stops unloading automatically and a corresponding information message is displayed. The message may be confirmed by pressing **ok – key [F]**.	
Unloading may now be finished, continued or the system may be drained. Pressing **continue – key [B]** continues the unloading. The preset volume indicated before can be unloaded again (that means the total unloaded quantity is doubled) or changed by pressing **preset – key [C]**. By pressing **end – key [A],** the unloading stops (not drainable version).	

In order to drain the measuring system, the bottom valve or the inlet to the measuring system has to be closed and – if existing – a valve for air flushing has to be opened.

If the filling level in the degaser reaches a value of less than 75%, the unloading valve is closed and, after approx. 20 seconds, an information message appears that draining is now initiated.

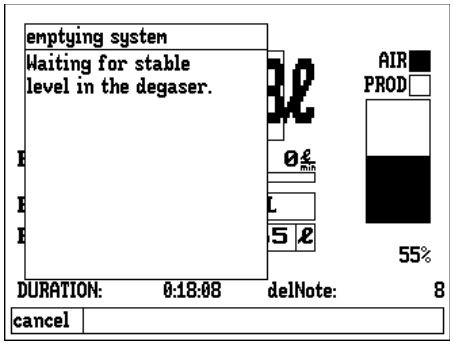
The system can still be filled again and unloading can be continued. In order to do this, the level in the degaser has to be increased again to more than 90%.

Continue draining of the system by pressing **flush – key [A].**

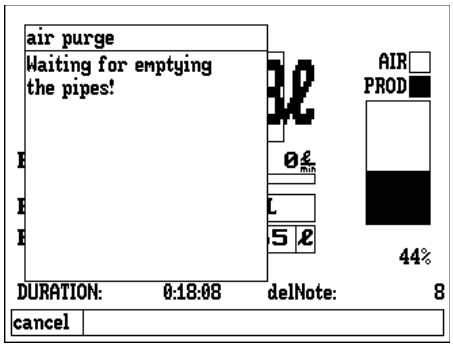


The content of the degaser is measured and added to the volume measured by the MID during unloading.

After further 10 seconds (default), air flushing starts automatically and the content of the measuring system is emptied into the customer tank.



During this time, the system is completely emptied via compressed air. If there is still product in the degaser after 15 seconds (default), an error message appears. The draining process may now be started again or unloading may be stopped without calibration.



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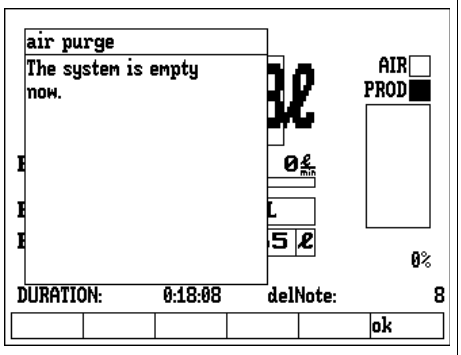
If the system is completely drained, the message “System is now empty” appears on the display.

The air flushing valve has to be closed now. By pressing **ok – key [F]**, the measuring process may be finished.

IMPORTANT: The content of the hose is property of the customer!

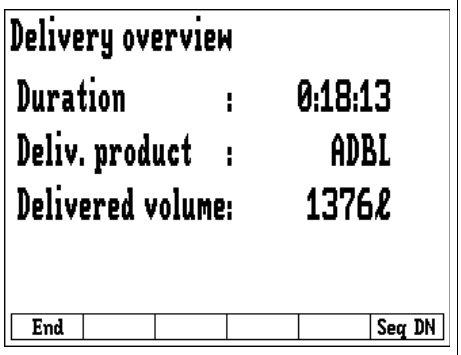


3.6 Printing of Delivery Notes

The system displays the final measuring result.

By pressing **Seq DN – key [F]**, a further partial delivery may be started. Thus, a collective delivery note (in table form) is printed.

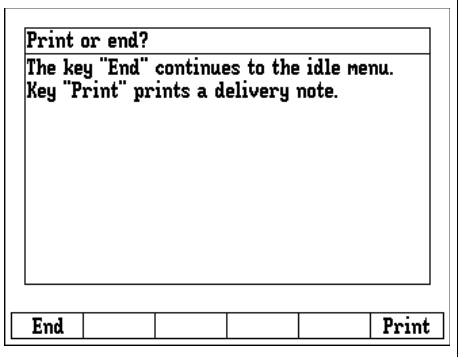
If no partial delivery is desired, the unloading may be stopped completely by pressing **End – key [A]**.

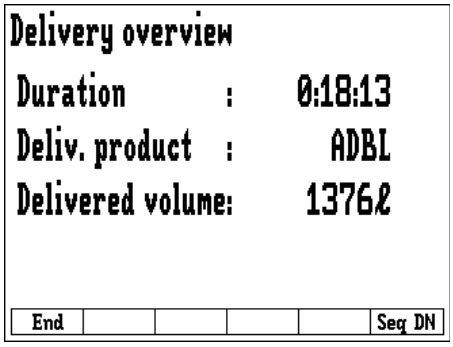
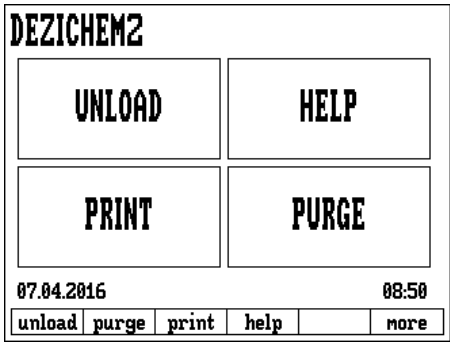


If a delivery note is desired, it can be printed. If not, the initial state is displayed again by pressing **End – key [A]**.

If the delivery note form is placed correctly by pressing FORWARD or REVERSE (the first line has to be positioned before the feeding), printing can be started by pressing **Print– key [F]**.

Further copies of the note can be created by pressing **Print – key [F]** again or they can be printed afterwards via the print menu (menu 5).



The system displays the final measuring result. By pressing **Seq DN – key [F]**, a further partial delivery may be started. Thus, a collective delivery note (in table form) is printed. If no partial delivery is desired, the unloading may be stopped completely by pressing **End – key [A]**.	
Now, the system switches to the initial state again and is ready for the next unloading.	

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4 Attention and Emergency Switch (optional)

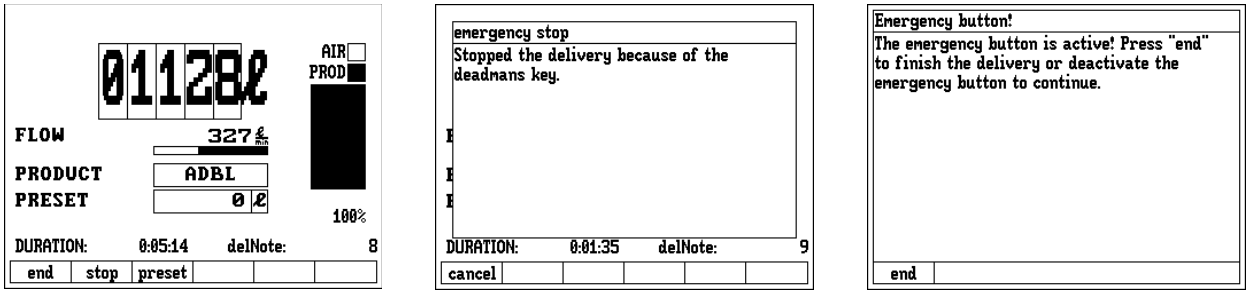

figure 3: attention and emergency switch

An alternative method to reduce the risk of overfills or product exit/escape in general is to ensure the presence of the driver by a so-called attention switch.

The most simple version is to regularly confirm an information message at the DEZITOUCH display or, alternatively, at a separate wired device which at the same time fulfills the function of an emergency switch.

If the option “emergency switch” is activated, the display shows a request/demand/message every 30 seconds (dead time = time freely configurable) to press this button.

If this demand is not answered within 30 seconds (waiting time = freely configurable), the running unloading is interrupted displaying the error message **„Stopped the delivery because of the deadmans key.“ (see screen shot)**

Explanation:

>> Unloading << The unproductive time starts. If this time period is over, the waiting time starts. Now, the user is requested optically (button flashes) and acoustically to press the emergency switch.

If the emergency switch is pressed during the message, unloading is also stopped showing the error message **„The emergency button is active!“**.

This message is also printed on the delivery note.

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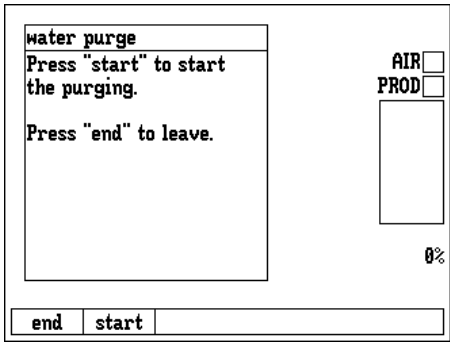
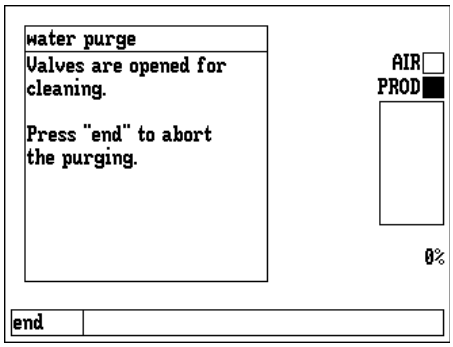
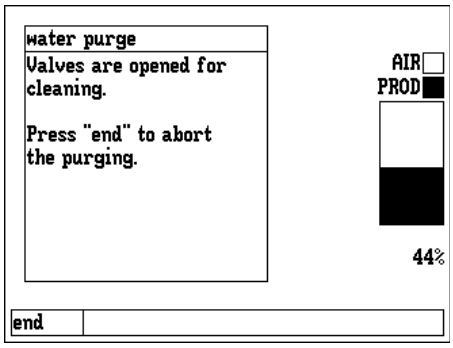
5 Flushing

5.1 General Notes

By pressing **flush – key [B]** in the initial state, water flushing is started.

This is done in order to completely clean the measuring system from remaining product.

5.2 Start Flushing

Connect the measuring system for the flushing process. Start the water flushing by pressing **start – key [B]** or stop it by **end – key [A]**.	
Open the valve of the water inlet. If system is filled completely, the measuring system opens the product valve automatically and water can flow through without hindrance.	
At the end, close the water valve and open the purging air until the system and the hoses are completely empty. By pressing **end – key [A]**, the cleaning program is stopped and the system returns to the initial state again.	

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6 Printing

6.1 Delivery Notes

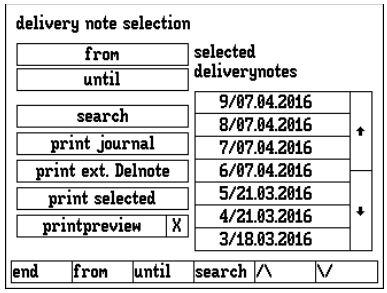

figure *4*: *printing* menu

6.1.1 Selection and Printing of Delivery Notes

9/07.04.2016 print selected	The last 7 delivery notes are displayed on the right half of the screen. The last one is always at the top. In order to print a delivery note, select it via the touch display (the chosen delivery note is highlighted in black). Then it can be printed by pressing **„print selected“ (see screen shot)**. If a delivery note is printed several times, copies are marked.

```
DELIVERY NOTE # 00009
Status
 08:Quantity to small
Date : 07.04.2016  08:51 - 08:56
Meter/Meas.Nr   Z1A/00065
Vehicle:         : DEG-DD 123
Product:  ADBL
 AdBlue
Initial meter pos  0000,0L
Gross Quantity 0109,9L
* Data enclosed in Asterisks "*" are  *
* measured by approved components. *
Summierzähler*(Prod)       414 L
Summierzhlr.*(Zählw)      1444 L
Degaser Shutdowns   3
Seal counter at delivery: 1
current seal counter : 1
```

→ consecutive delivery note number

→ errors during unloading
→ date and time of unloading
→ counter and system number of the DEZICHEM 2 system
→ license number or vehicle number
→ product abbreviation
→ product name
→ counter reading was 0 at the beginning of unloading.
→ non-compensated unloading volume

→ totalizer of the product
→ totalizer of the counter
→ how many times did the degaser stop the unloading process because of air entry.
→ sealing states

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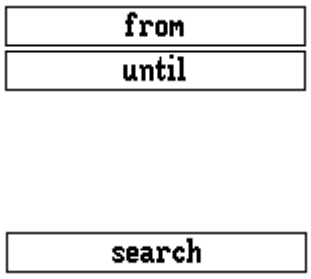
6.1.2 Delivery Note from / Delivery Note to



The time period of delivery notes can be limited by pressing**„from“** and **„until“**. The delivery notes which were issued in the indicated time period are displayed on the right half of the screen.

To narrow down the time period, enter either the data (TT.MM.JJJJ) or the delivery note number.

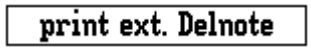
If the corresponding time period is chosen, it may be displayed by pressing **„search“** (see screen shot).

6.1.3 Printing of Journal

A complete overview of all deliveries during the time period indicated in “from”/”to” is printed.

```
JOURNAL Nr. 1                                  → consecutive journal number
from 08.03.2016,10:57 until 07.04.2016         → journal time period
DLV# time dur prod  Quant #D err.
---- ---- --- ----  ----- -------- -- ----
------ 05.02.2015 ------                       → date of deliveries
0001 12:08  9  FM 1    11  1 0000              → delivery note 0001
0100                                           (with occurred error 0100 – see error codes)
0002 13:45 21  ADBL  1019  2   ok              → delivery note 0002
0003 14:21 35 BVMix  8002  5   ok              → delivery note 0003
0004 16:31 23  ADBL  1002  2   ok              → delivery note 0004
-----------------------------------------
Prod    Subtotal Total Quantity                → summary
 FM 1       11,4 0000014057                    → product sum FM 1
 ADBL     2021,3 0000487514                    → product sum ADBL
BVMix     8002,2 0000008002                    → product sum BVMix
```

6.1.4 Printing of Extended Delivery Note



This selection is equal to “print selected” The only difference is that an extended delivery note with additional information is printed.

This is helpful especially for service purposes.

6.1.5 Printing of Preview

A preview is shown before each print.

If the measuring system runs without printer, this can be used for displaying the delivery notes.

However, if this option is permanently desired, it is recommended to activate the software option **„printpreview“ (see screen shot)**.

6.2 Printing of System Data

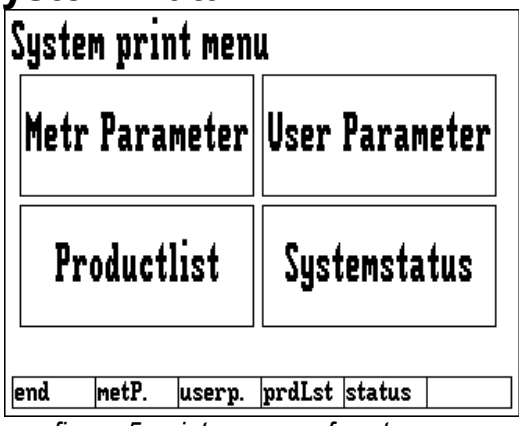


figure 5: printer menu of system

These prints contain all system parameters. It is recommended to print these parameters before each change or service.

DEZIDATA Transport Vehicle Equipment GmbH
Industriestr.10
D-94469 Deggendorf
http://www.dezidata-tve.de
FON: +49-991-29090-0
FAX: +49-991-29090-29

Metrological data (see screen shot)

```
METROLOGY DATA 07.04.2016 09:52
System is UNSEALED!
EC type-examination certificate:
  DEZICHEM2(R) DE-14-MI005-PTB022
Manufacturer:
 DEZIDATA Transport Vehicle Equipment GmbH
 Industriestr.10,D-94469 DEGGENDORF
ID of installation   : Set up!
Meter Identifier     : Z1A
Latest Sealing Date  : ----------

Seals and Signatures
Software-signature   : DF17(SW)
Ctr. chg. software   :   20
Ctr. chg. calibration:   23
Ctr. entering calibr.:   74 !=   73(MEM)

System Time Constants
Max.meter idle time  : inact.
Display testing delay:   2 s
Wait for level      10 s
Wait for purge      20 s

Switching levels and gauging function
Min-/Max. endlevel 15/ 75 %
Pulse widths 0/100%  : 191/2495
Slope of dipcurve 0,07373 l/%
Contents at 0% level 2,85 l
Air valv. open/close : 85/90 %
Prd valv. open/close : 90/65 %

Magnetic Flowmeter
Scale/integr.time    :     1,000/    0,000
Code1/2/3            :223332/   100/342411
Last param modif.    : 09.03.2016 15:20

Flow and MID Parameters
Maximum flow         :    667 l/min
Minimum flow         :     10 l/min
Counter calibr.factor:   40,00000
Meter correction     :    0,00000 %
min.deliv.quantity   :    200 l
Max.excess volume    :     30 l
Max.reverse volume   :     20 l

Serial numbers and versions:
DD0090 Serial No     : 20110600500D
  Software Version   : 3,04
  Creation date      : 2015-12-15 ; 11:43

PD355 SerialNo       :  54C5638
MID Flowmeter        : 559607
  Firmware Version   : A530027-2: 601
Coprocessor for meas.: 1
Hardware-options     : 00000040
Permittd.options     : 00000040
 [ 1]-- % Simulate flow+level
 [ 6]++ % Pump control
 [ 9]-- % Temperature sensor
 [10]-- % PT100 temp. sensor
 [12]-- % Pulse meter
 [13]-- % 2 phase pulse meter
-----------------------------------------

Software-options     : 00000000
Permittd.options     : 00000000
 [ 2]-- % deciliter resolution
-----------------------------------------



Approved prod properties
-----------------------------------------
Nr M Cod FF% Dens Visc TmpCo TempRang Name
-----------------------------------------
 1 2   1 100 9999    1    0,0 -99 99 Chemis
-----------------------------------------
```

User data (see screen shot)

```
USER DATA 07.04.2016 09:54
System is UNSEALED!
Seal Ctr. (mag)      :  29
EC type-examination certificate:
  DEZICHEM2(R) DE-14-MI005-PTB022
Non-metr. Firmware V3,37[20151215]
ID of installation   : Set up!
Vehicle              : No Number

Password1:???????? 2:???????? 3:????????

language        :english

Printer parameters
Printer interface    : DD8005
Printer baudrate     : 9600
Printer configuration: 0
Formfeed timeout     : 7000
Line delay           : 700
Units before top     : 50
Drawback lines       : 20
Lines in reverse     : 4
XOFF timeout         : 10000
Grab delay           : 1200
Maximum page width   : 42
DlvN./Invc./Journ.No : 0009/0000/0000
Sequence for delivery documents
-abcdfhIzKs-R

Magnetic Flowmeter
Preflow-limit/-delay 650L/min/    3 s
Warn. reverse volume :    1 l
Hysteresis rev. vol. :    1 l

System parameters
Pre-shutoff volume   :    0 L
Valve close time     :    2,0 s
Max pause/flowlimit  :  30min/5,0
Hardware-options     : 00004051
Permittd.options     : 00004051
 [ 0]++   Printer connected
 [ 1]-- % Simulate flow+level
 [ 4]++   Dead man key
 [ 6]++ % Pump control
 [ 9]-- % Temperature sensor
 [10]-- % PT100 temp. sensor
 [12]-- % Pulse meter
 [13]-- % 2 phase pulse meter
 [14]++   pressure sensor
-----------------------------------------

Software-options     : 00000588
Permittd.options     : 00000588
 [ 2]-- % deciliter resolution
 [ 3]++   Purgeable (CIP)
 [ 7]++   Print preview
 [ 8]++   Quantity preset
 [10]++   Display volume double sized
-----------------------------------------

Product list
Nr. P Prop OrdNr Abbrv Product name
-----------------------------------------
  1 2    0     1 ADBL  AdBlue
  2 3    0     2 H2O   Water

Control outputs
Main product vlv     :   1
Dearing valve        :   2
Pump hi speed        : INAKTIV
Pump enable low      : INAKTIV
Pump on/off          : INAKTIV

Control inputs
Pneumatics ok        :   2
Overfill sensor      :   3

Deadman parameters
DM-key attent.out    :   3
Deadman key input    :   1
Deadman wait [s]     :  30
document is continued on page 2.
```

The product list is registered in the system according to the order or specification. Single products may be entered or changed in the configuration menu.

If a complete product list is desired, it is advisable to contact the service department of DEZIDATA Transport Vehicle Equipment GmbH.

System status

```
STATUS REPORT 07.04.2016 10:44
System is UNSEALED!
ID of installation   : Set up!
DDD090 Serial No     : 201106005000
  Software Version   : V3.37[20151215]
DDD120 Serial No     : 000000000000
  Software Version   : 1,63
MID Flowmeter        : 559607
PD355 SerialNo       :  54C5630
  Firmware Version   : AS30027-2:V0601
PrinterSerialNo 20140501190D
  Firmware Version   :  0,04
Totalisers
Meter totaliser  00006810
Nr ProdID Totaliser Name
-------------------------------------
  1     1     1429 ADBL/AdBlue
  2     2        0 H2O/Water

Password Usage
```

Product list

```
Product list 07.04.2016 10:24
Nr. P Prop OrdNr Abbrv Product name
-------------------------------------
  1 2    0     1 ADBL  AdBlue
  2 3    0     2 H2O   Water
-------------------------------------


Approved prod properties
-------------------------------------
Nr M Cod FF% Dens Visc TmpCo TempRang Name
-------------------------------------
 1 2   1 100 9999   1   0,0 -99 99 Chemis
-------------------------------------
```

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7 Error Codes

If an error occurs during unloading, it is stated on the delivery note and stored in the system. It can be retrieved via the printing menu.

If an error code is unclear or not stated in the list below, please contact the service team of DEZIDATA Transport Vehicle Equipment GmbH.

All current error codes are described in the list below.

Error Codes		
Code	**Error**	**Description**
00	POWER_FAIL	power failure
01	PULSER	serious MID fault
2	REV_FLOW	return flow error
03	OVERSPEED	flow speed too high
04	PNET	P-NET communication error
05	CHKSUM	checksum/storage error
06	TEMP_LIM	product temperature
07	DIAG_MODE	diagnosis state activated
08	QUANT_LOW	delivery amount too low
09	DIPL_LIM	exceeding of stop level
10	ADD_ERR	additive//overfill/attention and emergency switch off
11	NO_STOP	flow does not stop
12	BAD_SN	serial number UPI changed
13	LONG_STOP	standstill duration of counter
14	LOW_PRESS	delivery pressure too low
15	EPSIGERR	calibration parameter error
16	LAYSIGERR	layout signature error
17	FONTSIGERR	font signature error
18	MSGSIGERR	message signature error
19	SHADOWERR	restored data
20	NOTEWODELIV	double delivery note (failure)
21	PTBCRCERR	product checksum error
22	FROMPNET	imported backup via P-NET bus
23	DENSRNG	product density out or range
24	INVALPRODUCT	selected product invalid
25	CKSCOPR	coprocessor checksum error
26	SIMUERR	coprocessor simulation error
27	PHASERR	phase error during measurement
28	NOTEMPTY	no proper emptying

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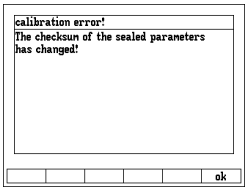
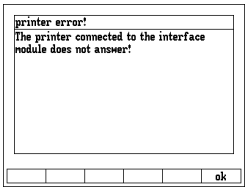
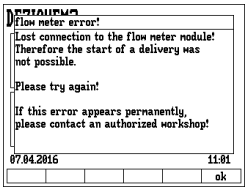
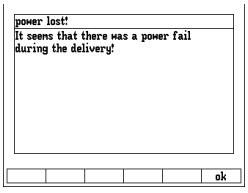
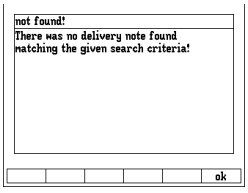
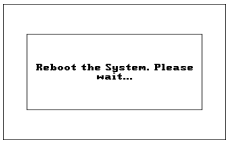
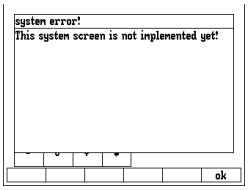
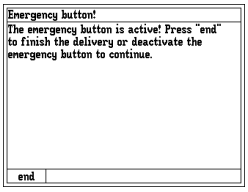
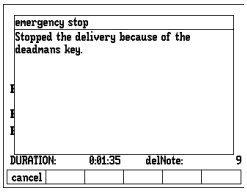
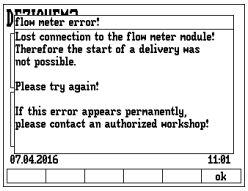
8 Fault & Malfunction Indicators

	**Checksum error** The calculated current checksum does not correspond to the set checksum. Calibration parameters (serial numbers etc.) have been changed without resealing the system. → check calibration parameters and reseal system
	**Printing error** No connection to the printing module DD80 could be established. → do a net scan and check wiring
	**MID error** No connection to the MID PD340 could be established. → do a net scan and check wiring
	**Power failure** Power supply of the system was interrupted or switched off during measurement. → check power supply, switches and wiring
	**Printing data not found** No delivery notes for the selected period of time were found. → change period of time or select different delivery note
	**System will be rebooted** An automatic restart was initiated. This may happen by changing the language. → do not switch off the system

	Air pressure error Either the pneumatic pressure is not sufficient and must be increased for unloading or a cable is broken. → increase pressure or check wiring respectively
	**System error** This system state is not implemented yet but will be done with the following software versions. → update the system if available (contact DEZIDATA TVE for updating)
	**Emergency switch activated!** The emergency switch was activated and, thus, unloading was stopped. → check emergency switch or wiring respectively
	**STOP due to emergency switch** Unloading was stopped as the emergency switch was not activated within the preselected period of time. → check wiring if switch was activated
	DEZIDATA-TVE logo Connection from DEZITOUCH display or counter module DD90 to the system was interrupted. → do net scan and check wiring
	**MID error** No address for the MID is configured. The system cannot write parameters as the address is not configured. → configure in the menu

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Industriestr.10
D-94469 Deggendorf
http://www.dezidata-tve.de
FON: +49-991-29090-0
FAX: +49-991-29090-29

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