Index

System Description

Postmix

MAX 8 products
pr. Unit.

Tap 2520

Tap 2520

MAX 16 units

Freeflow

MAX 8 products
pr. Unit.

Tap 2550

Tap 2550

MAX 16 units

Tap 3000

MAX 16 units

POS

Tap 2500

Printer

PC

Installation of non drip wall racks

- ✓ Make sure to have sufficient wall space (see sizes fig.1).
- ✓ Mount a loop cable from Tap 2500 and a power cable from the power supply to the first wall rack. Next racks are connected after mounting them.
- ✓ Use the templates provided by TAP Systems to mount the racks. Alternatively use the back of the racks with mounted brackets to mark drilling hole positions.
- ✓ Templates/Back panels are placed according to instructions in fig's. 2 and 3.
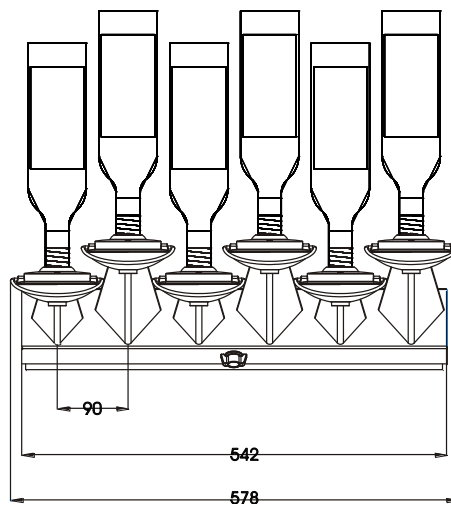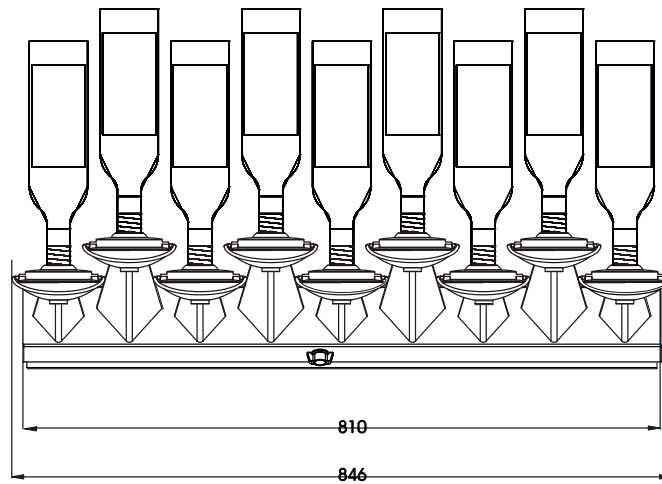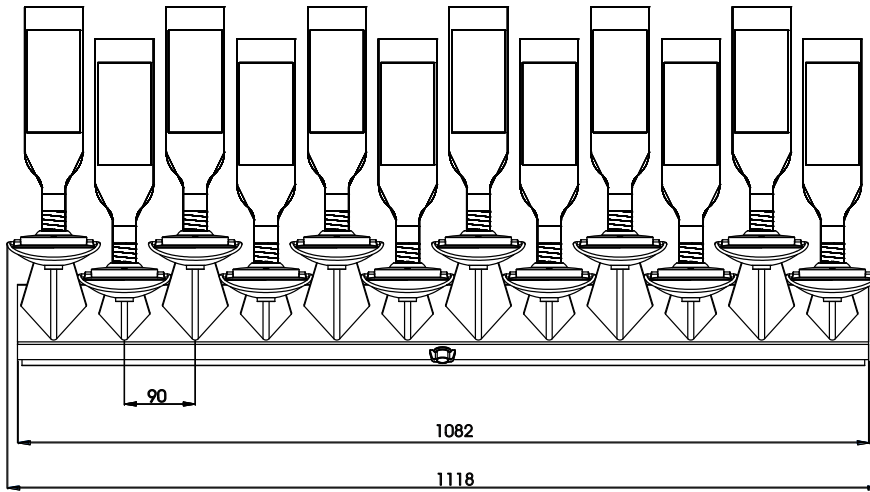 Apply min. 13 to 15 mm distance between two templates/back panels when 2 racks are to be placed tightly together. This will result in a 3-5mm distance between ready mounted racks.
- ✓ Firmly affix all wall brackets.
- ✓ If racks are to be placed in two levels, follow instructions as to fig. 3, making sure to have the upper rack 10cm from the wall.
- ✓ After mounting all brackets, ensure that the bottle locks are OPEN before mounting the racks. (Wall brackets are to easily slide in under the lock shins when mounting!).   Pulling the racks a few centimeters off the wall whilst resting on the brackets provides easier cabling on top of the racks.
- ✓ Follow instructions in Fig. 4 to mount connectors on the loop cable from TAP2500 and on the power cable from the power supply.
- ✓ Remember to mount a 124 Ω resistor on both ends of the (entire) loop.
- ✓ Mount the connector lids and affix the racks onto the brackets with 2 screws (bottom) and 2 Allen bolts (top).
- ✓ Rack power supplies are connected to Main 230VAC & ground.
- ✓ Program the racks as described in section RACK Programming. It is important that rack addresses go from left to right, as shown in fig. 5
- ✓ Products, prices and sizes for each non drip arm are programmed in the TAP 2500 unit or in the PC program.
- ✓ Labeling each arm with product names is recommended. Use "Brother TZ" (or similar) tape 6mm white texts on black background).

Non drip wall racks for 12, 9 & 6 bottles

90
1082
1118

810
846

90
542
578

Mounting holes for wall brackets
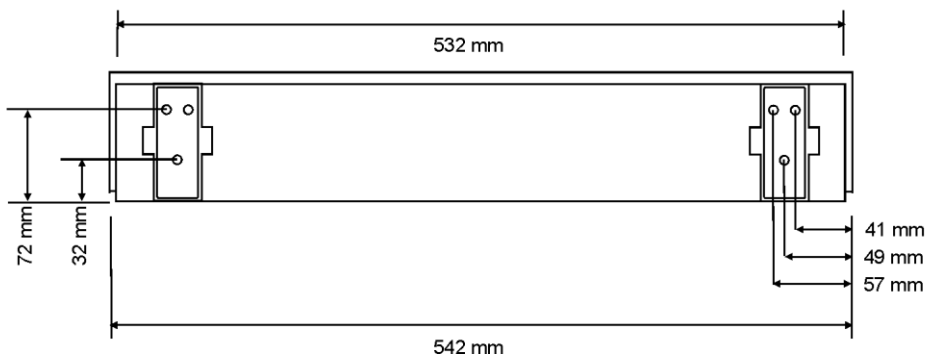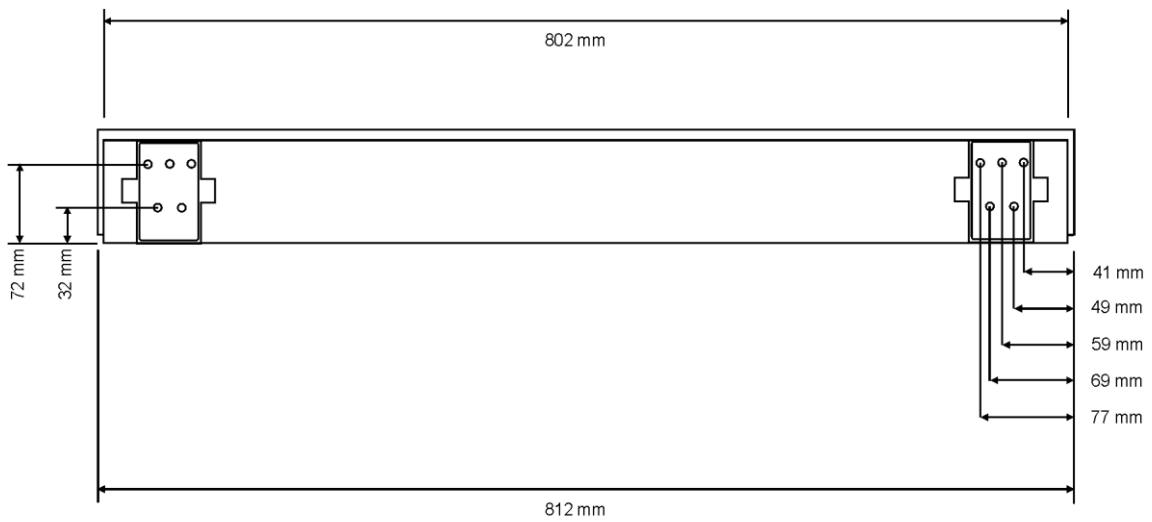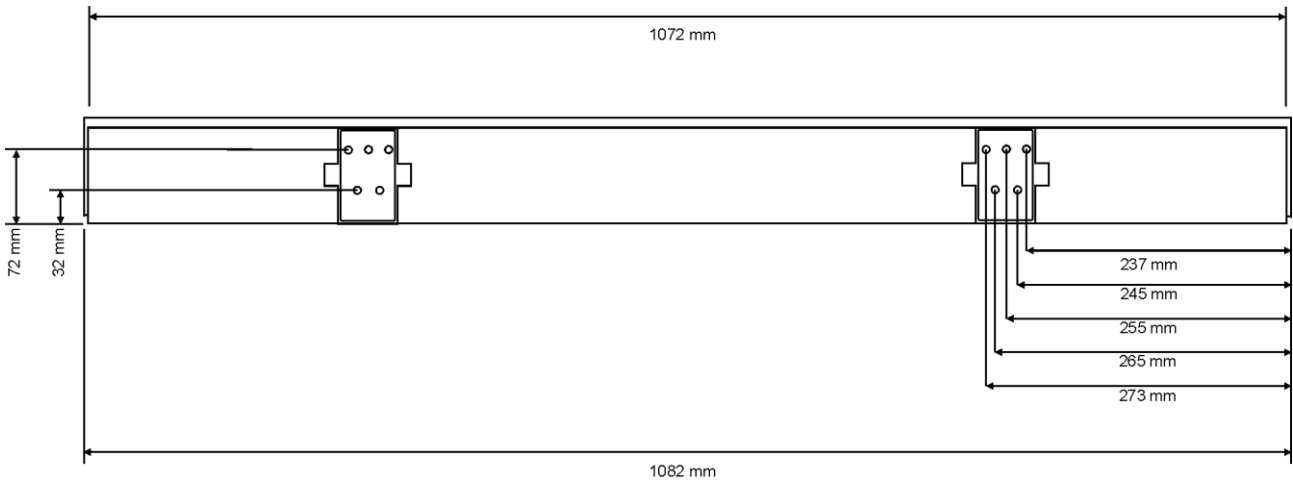
Fig.1

Non drip wall racks in 2 levels

Recomended hight to ceiling. 2400 mm

Upper level

co. 550

Max 230 cm.

100

Max 190 cm.

Lower level

co. 463

382

500

85

42

174

336

Recomended hight from floor: 1350 mm.
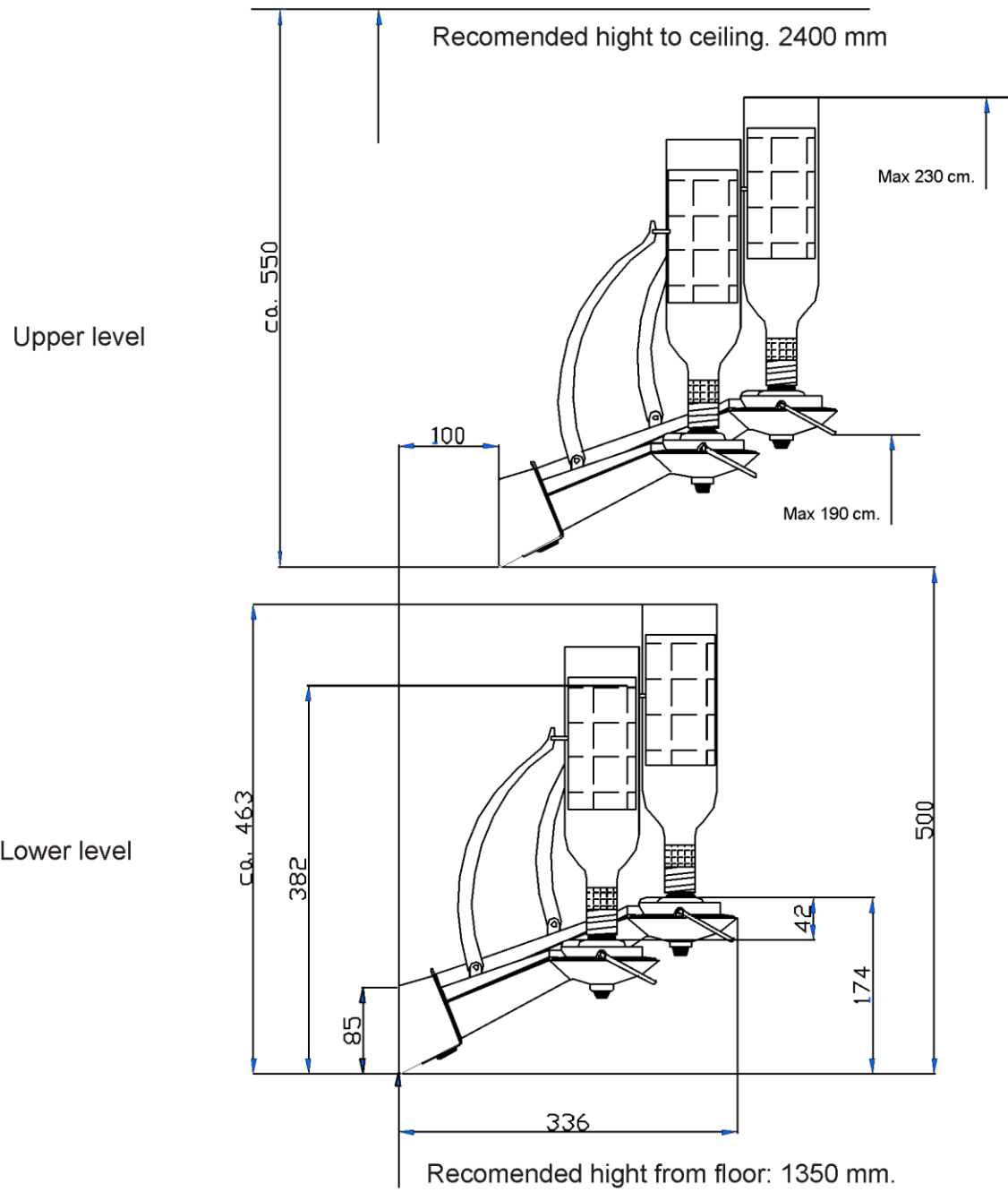
Fig.3

Installation diagram
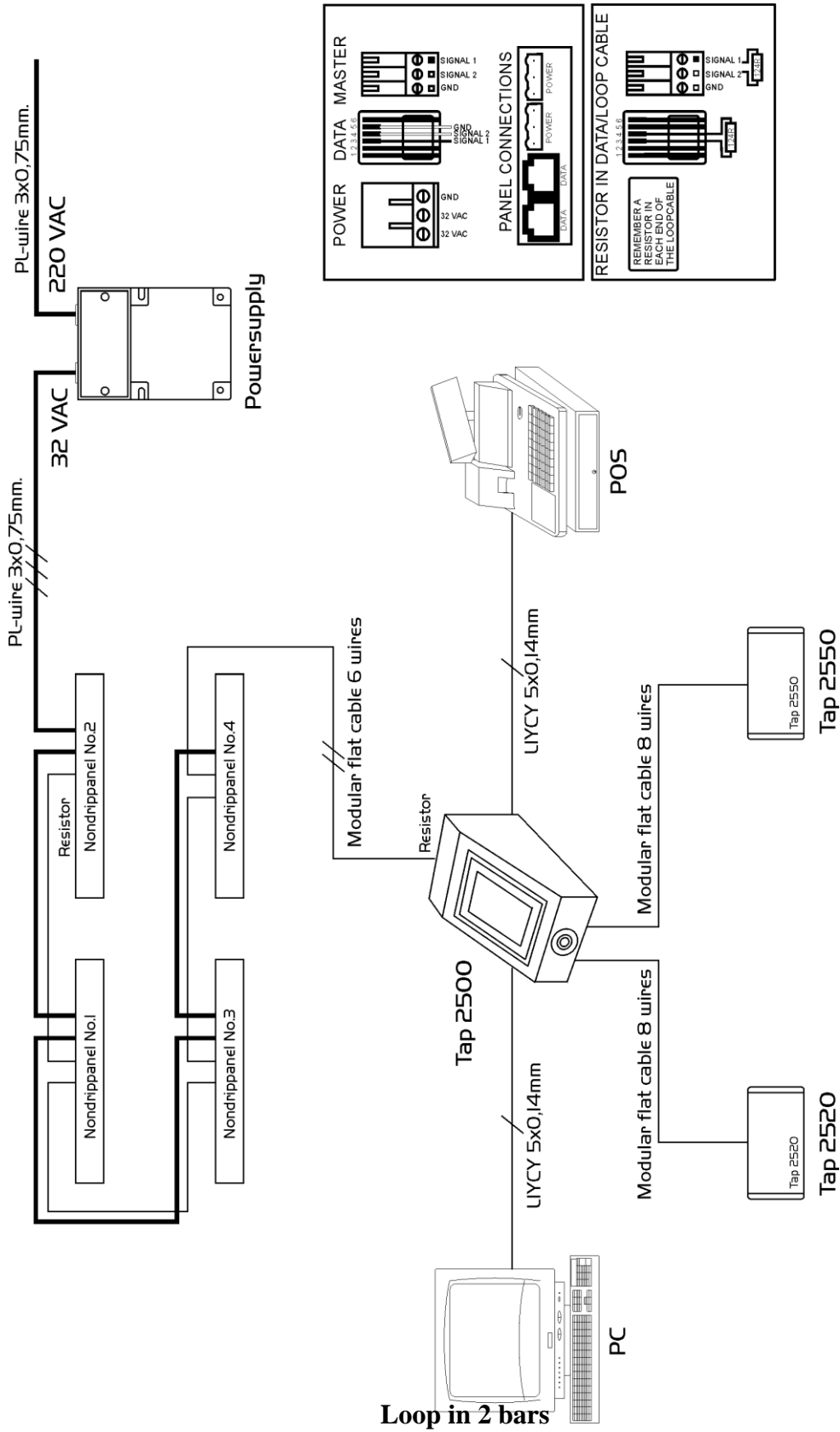
Fig.4
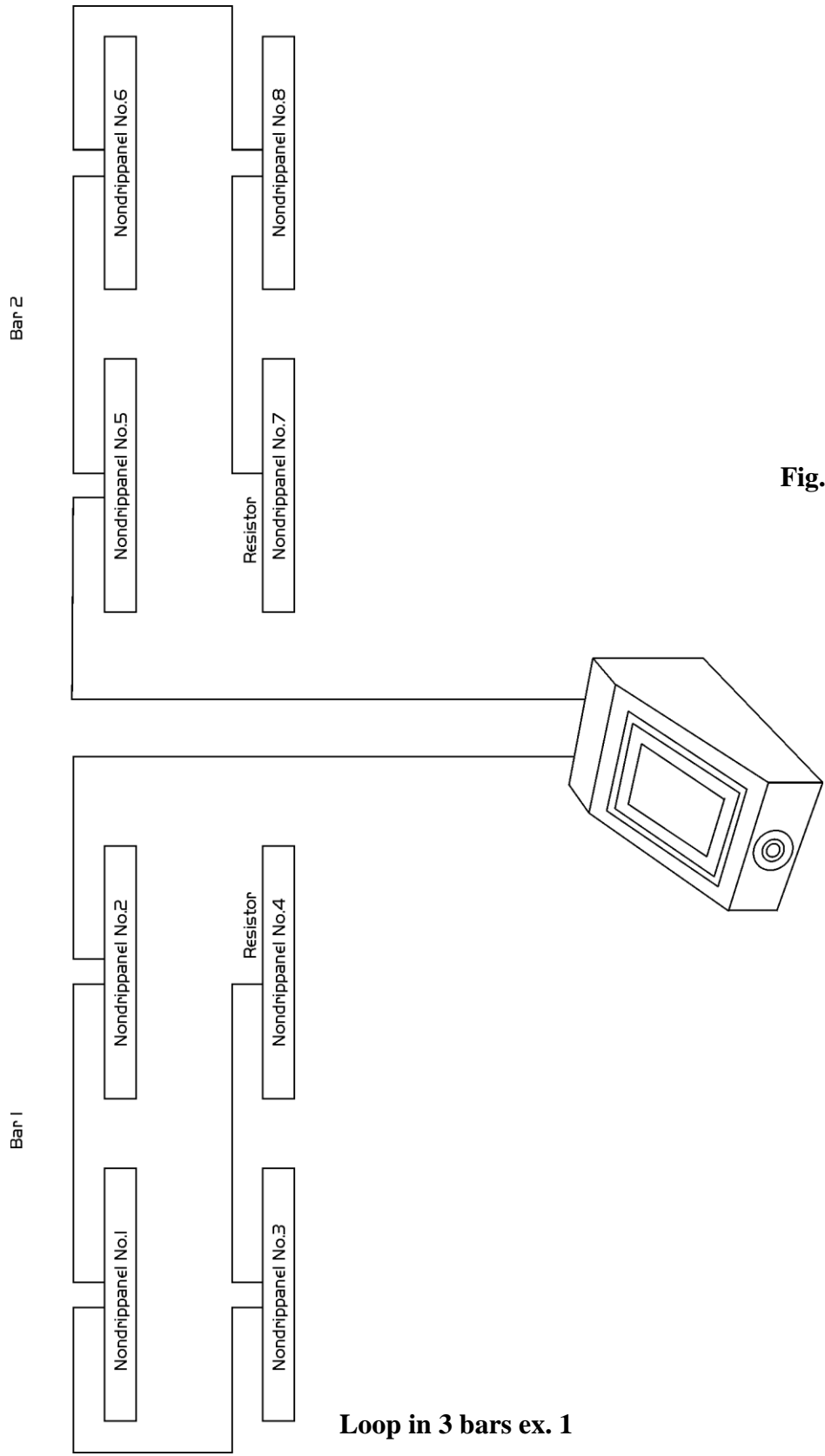
Loop in 2 bars

Fig.5

Loop in 3 bars ex. 1
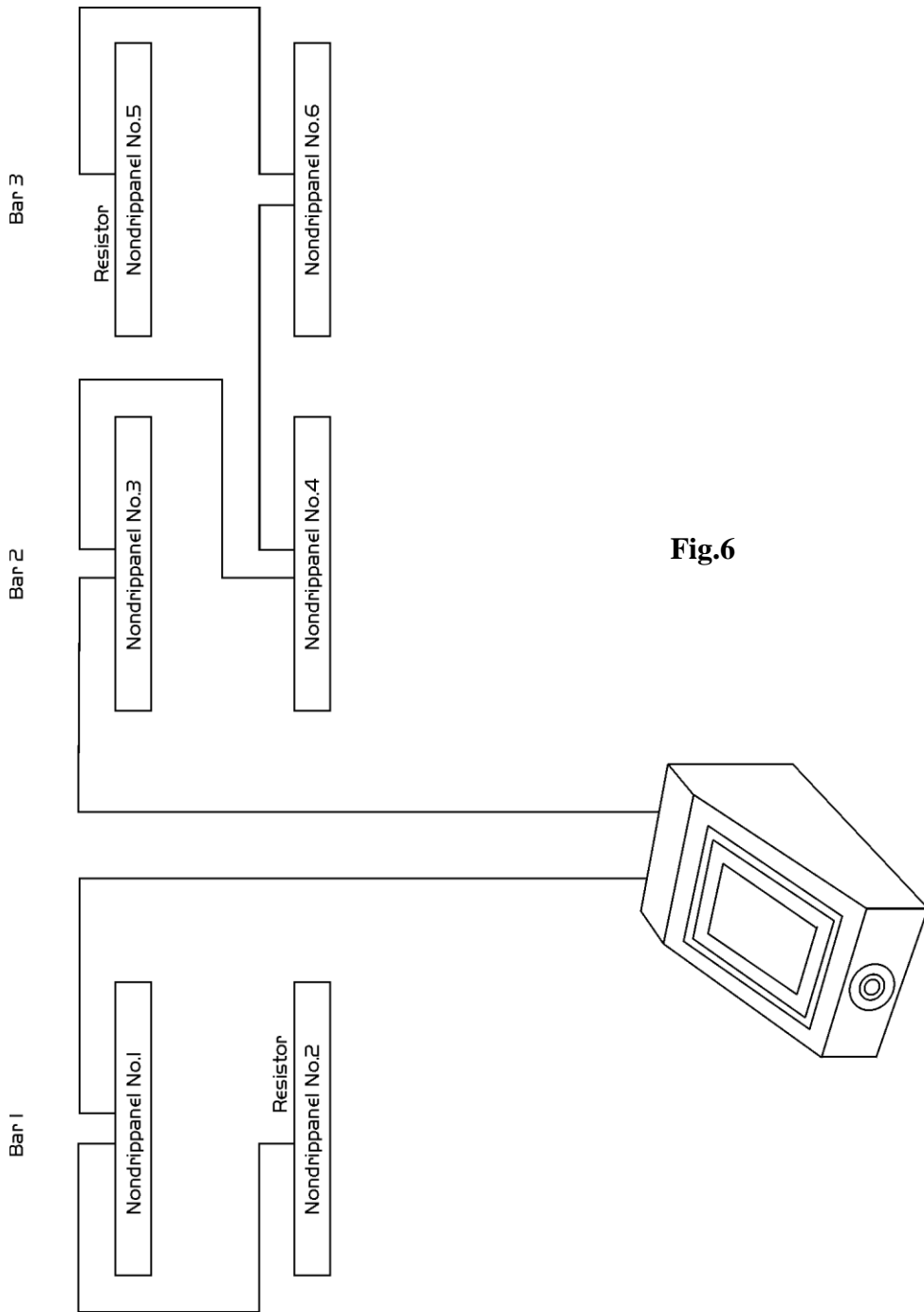
Fig.6

Loop in 3 bars ex. 2
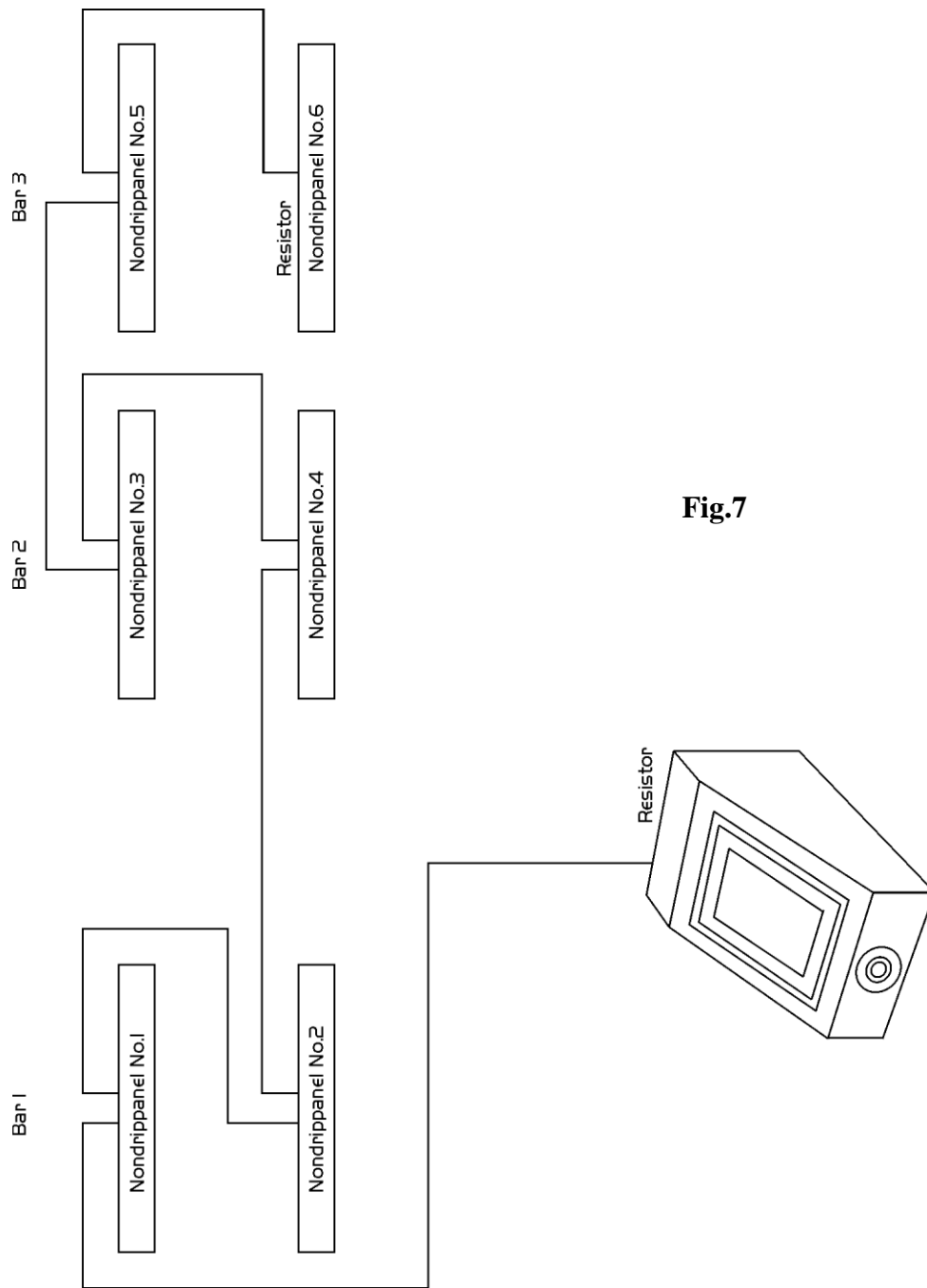
Fig.7

Racks & arms numbers

BAR 2

Panel nr. 5

60 59 58 57 56 55 54 53 52 51 50 49

72 71 70 69 68 67 66 65 64 63 62 61

Panel nr. 6

BAR 1

Panel nr. 2

24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

Panel nr. 1

48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25

Panel nr. 4

Panel nr. 3
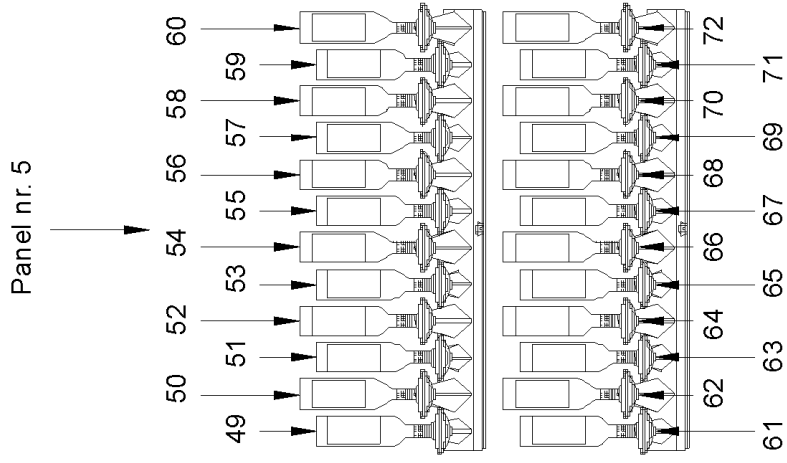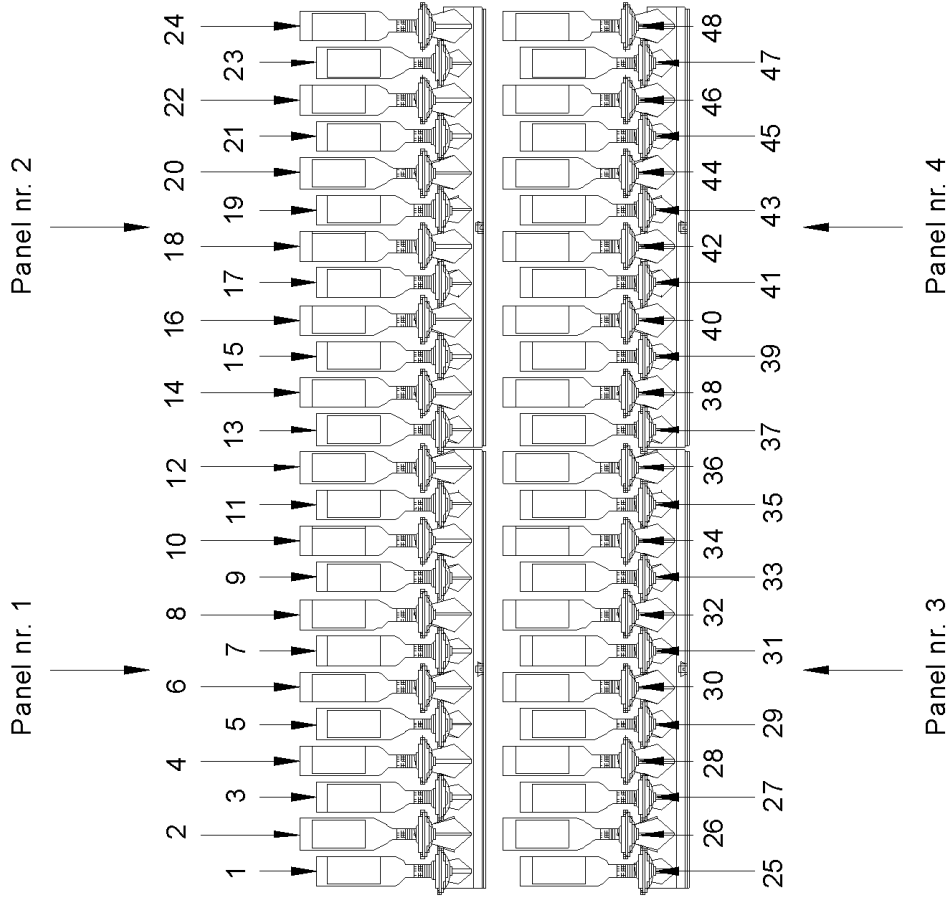
Mounting racks on the brackets

Step 1

Låseskinne

Step 2

Step 3

Note: Fitting has to glide in under the lock bar

Step 4
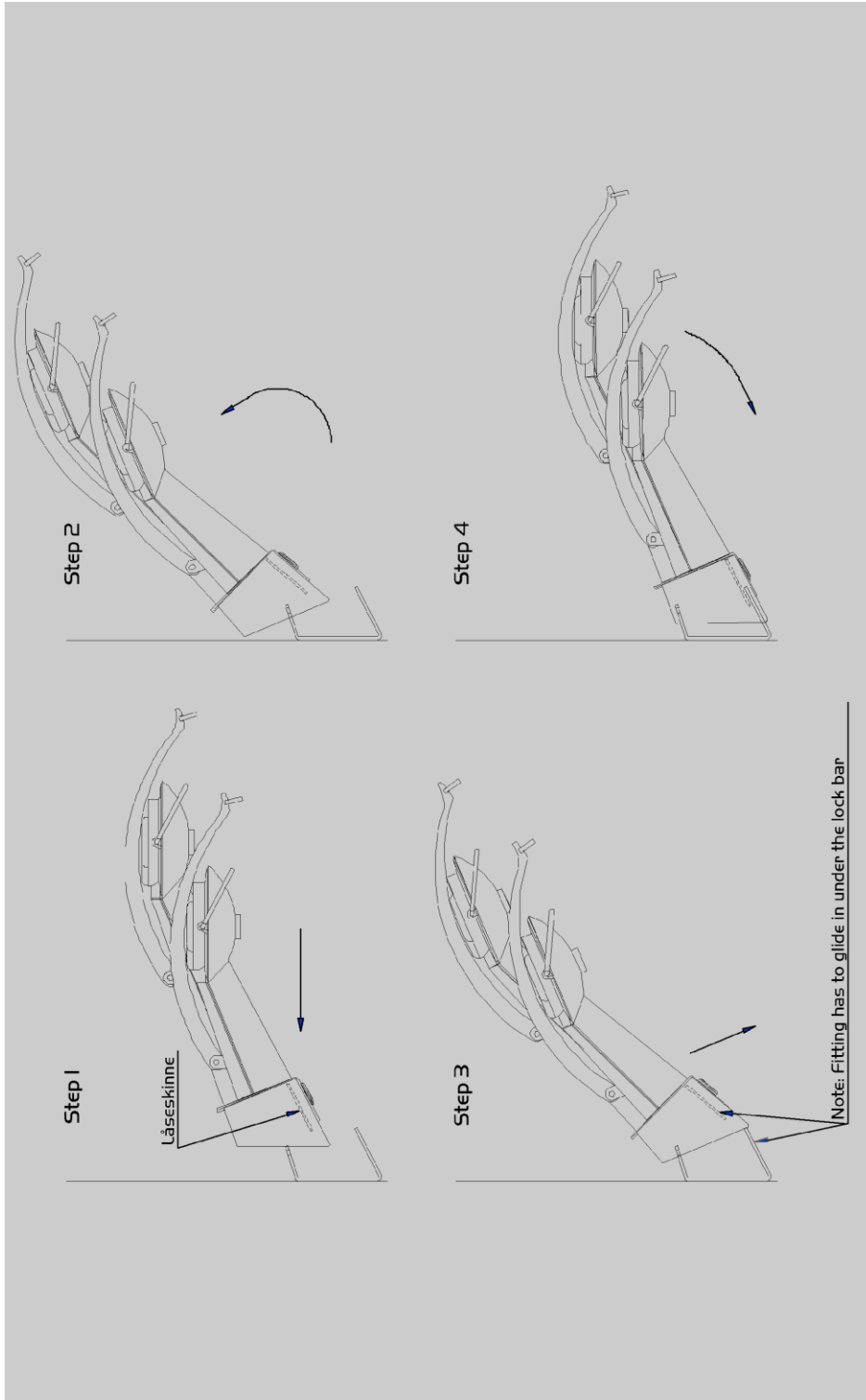
Fig. 8

Rack Programming

Follow sequences below for each individual rack.

Mind ..

If TAP2400 Master Control is used, this is to be switched OFF during programming the racks.

Activate the rack menu by clicking levers 1 and 2 (first 2 from the left) as described here:

Programming sequence

In order not to activate the menu accidentally:

1. Switch OFF power to the rack.
2. Switch ON power to the rack.
3. Follow the sequence shown below within 2.5 seconds after powering:
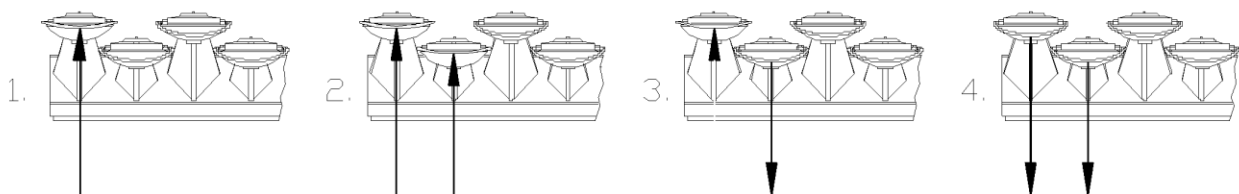
Fig. 9

1. Activate arm no. 1. And keep it "UP".

2. Activate arm no. 2 whilst arm no. 1 is kept "UP".

3. Release arm no. 2 whilst keeping arm no. 1 "UP".

4. Release arm no. 1

The light indictor in arm no. 1 now blinks and the menu is active.

Rack menu

When the Rack Menu is active, the light indicator in arm no. 1 blinks during the entire programming session. At step 5 & 6 (Dual size) however, the indicator in arm no. 1 will light permanently.

Moving from step 1 to 6 is done by clicking arm no. 1.

- Step 1. Rack address.
- Step 2. Delay before dispense.
- Step 3. Not used.
- Step 4. Set Stand Alone and block refill for UK version spout.
- Step 5. Delay between size 1 and 2.
- Step 6. Delay between size 2 and "off" and "One size only".

Step 1: Rack address

Each rack is programmed with an individual address: 1,2,3,4 etc., to max. 16.   Using reading direction (L to R) is recommended (fig. 5).

ADDRESS	ND1	ND2	ND3	ND4	ND5	ND6
1	BLINK	ON	OFF	OFF	OFF	OFF
2	BLINK	OFF	ON	OFF	OFF	OFF
3	BLINK	ON	ON	OFF	OFF	OFF
4	BLINK	OFF	OFF	ON	OFF	OFF
5	BLINK	ON	OFF	ON	OFF	OFF
6	BLINK	OFF	ON	ON	OFF	OFF
7	BLINK	ON	ON	ON	OFF	OFF
8	BLINK	OFF	OFF	OFF	ON	OFF
9	BLINK	ON	OFF	OFF	ON	OFF
10	BLINK	OFF	ON	OFF	ON	OFF
11	BLINK	ON	ON	OFF	ON	OFF
12	BLINK	OFF	OFF	ON	ON	OFF
13	BLINK	ON	OFF	ON	ON	OFF
14	BLINK	OFF	ON	ON	ON	OFF
15	BLINK	ON	ON	ON	ON	OFF
16	BLINK	OFF	OFF	OFF	OFF	ON
Illegal	BLINK	Other combinations				

Step 2: Delay before dispense

Delay between clicking the lever and starting the actual dispense. See table below.
If there is a risk of accidental activation of a dispense – a delay will be useful.
Factory default is 170 ms.

ND DELAY	ND1	ND2	ND3	ND4	ND5	ND6
0ms	BLINK	OFF	OFF	OFF	OFF	OFF
10ms	BLINK	ON	OFF	OFF	OFF	OFF
20ms	BLINK	OFF	ON	OFF	OFF	OFF
30ms	BLINK	ON	ON	OFF	OFF	OFF
40ms	BLINK	OFF	OFF	ON	OFF	OFF
50ms	BLINK	ON	OFF	ON	OFF	OFF
60ms	BLINK	OFF	ON	ON	OFF	OFF
70ms	BLINK	ON	ON	ON	OFF	OFF
80ms	BLINK	OFF	OFF	OFF	ON	OFF
90ms	BLINK	ON	OFF	OFF	ON	OFF
100ms	BLINK	OFF	ON	OFF	ON	OFF
110ms	BLINK	ON	ON	OFF	ON	OFF
120ms	BLINK	OFF	OFF	ON	ON	OFF
130ms	BLINK	ON	OFF	ON	ON	OFF
140ms	BLINK	OFF	ON	ON	ON	OFF
150ms	BLINK	ON	ON	ON	ON	OFF
160ms	BLINK	OFF	OFF	OFF	OFF	ON
170ms	BLINK	ON	OFF	OFF	OFF	ON
180ms	BLINK	OFF	ON	OFF	OFF	ON
190ms	BLINK	ON	ON	OFF	OFF	ON
200ms	BLINK	OFF	OFF	ON	OFF	ON
210ms	BLINK	ON	OFF	ON	OFF	ON
220ms	BLINK	OFF	ON	ON	OFF	ON
230ms	BLINK	ON	ON	ON	OFF	ON
240ms	BLINK	OFF	OFF	OFF	ON	ON
250ms	BLINK	ON	OFF	OFF	ON	ON
260ms	BLINK	OFF	ON	OFF	ON	ON
270ms	BLINK	ON	ON	OFF	ON	ON
280ms	BLINK	OFF	OFF	ON	ON	ON
290ms	BLINK	ON	OFF	ON	ON	ON
300ms	BLINK	OFF	ON	ON	ON	ON
310ms	BLINK	ON	ON	ON	ON	ON

Step 3 Do NOT USE (Normal = OFF).

DEFAULT KEY CODE	ND1	ND2	ND3	ND4	ND5	ND6
0	BLINK	OFF	OFF	OFF	OFF	OFF
1	BLINK	ON	OFF	OFF	OFF	OFF
2	BLINK	OFF	ON	OFF	OFF	OFF
3	BLINK	ON	ON	OFF	OFF	OFF
4	BLINK	OFF	OFF	ON	OFF	OFF
5	BLINK	ON	OFF	ON	OFF	OFF
6	BLINK	OFF	ON	ON	OFF	OFF
7	BLINK	ON	ON	ON	OFF	OFF
8	BLINK	OFF	OFF	OFF	ON	OFF
9	BLINK	ON	OFF	OFF	ON	OFF
10	BLINK	OFF	ON	OFF	ON	OFF
11	BLINK	ON	ON	OFF	ON	OFF
12	BLINK	OFF	OFF	ON	ON	OFF
13	BLINK	ON	OFF	ON	ON	OFF
14	BLINK	OFF	ON	ON	ON	OFF
15	BLINK	ON	ON	ON	ON	OFF
16	BLINK	OFF	OFF	OFF	OFF	ON
17	BLINK	ON	OFF	OFF	OFF	ON
18	BLINK	OFF	ON	OFF	OFF	ON
19	BLINK	ON	ON	OFF	OFF	ON
20	BLINK	OFF	OFF	ON	OFF	ON
21	BLINK	ON	OFF	ON	OFF	ON
22	BLINK	OFF	ON	ON	OFF	ON
23	BLINK	ON	ON	ON	OFF	ON
24	BLINK	OFF	OFF	OFF	ON	ON
25	BLINK	ON	OFF	OFF	ON	ON
26	BLINK	OFF	ON	OFF	ON	ON
27	BLINK	ON	ON	OFF	ON	ON
28	BLINK	OFF	OFF	ON	ON	ON
29	BLINK	ON	OFF	ON	ON	ON
30	BLINK	OFF	ON	ON	ON	ON
31	BLINK	ON	ON	ON	ON	ON

Step 4: Set Up

1. Standalone:

   A: USE if racks are to dispense only – and NOT register / report to a Master Unit: Connect a Master Unit only to set volumes. Click levers on each arm once and the rack will "remember" all sizes when removing the Master Unit. The light diode on the right (bottom side of the rack) will be off.

   B: A Master Unit is used, but dispensing is to continue even if the signal disappears.

   If the Loop signal is cut off for either reason, the rack will still dispense, but no registration takes place. (The right diode lights RED.)

2: Block dispensing whilst sight glass refills (UK spouts ONLY).

MISC. SETUP	ND1	ND2	ND3	ND4	ND5	ND6
	BLINK	MS	DAP	X	X	X

MS = Master / Stand alone (OFF = Normal / ON = Stand alone)
DAP = Block dispense during refilling sight glass of UK spouts. (OFF = Normal / ON = Delay)
X= OFF

UK version: Set DAP "ON" and **Step 6 "OFF" (One Size Only).**

Step 5: Delay between size 1 and 2

Is used to set the time between the constant lighting of an arm whilst dispensing the first size – to the blinking light that indicates that size 2 can be dispensed.

● = Factory default (For DUAL size dispensing only).

SIZE 1 TIME	ND1	ND2	ND3	ND4	ND5	ND6
0s	ON	OFF	OFF	OFF	OFF	OFF
0.16s	ON	ON	OFF	OFF	OFF	OFF
0.32s	ON	OFF	ON	OFF	OFF	OFF
0.48s	ON	ON	ON	OFF	OFF	OFF
0,64s	ON	OFF	OFF	ON	OFF	OFF
0.80s	ON	ON	OFF	ON	OFF	OFF
0.96s	ON	OFF	ON	ON	OFF	OFF
1.12s	ON	ON	ON	ON	OFF	OFF
● 1.28s	ON	OFF	OFF	OFF	ON	OFF
1.44s	ON	ON	OFF	OFF	ON	OFF
1.60s	ON	OFF	ON	OFF	ON	OFF
1.76s	ON	ON	ON	OFF	ON	OFF
1.92s	ON	OFF	OFF	ON	ON	OFF
2.08s	ON	ON	OFF	ON	ON	OFF
2.24s	ON	OFF	ON	ON	ON	OFF
2.40s	ON	ON	ON	ON	ON	OFF
2.56s	ON	OFF	OFF	OFF	OFF	ON
2.72s	ON	ON	OFF	OFF	OFF	ON
2.88s	ON	OFF	ON	OFF	OFF	ON
3.04s	ON	ON	ON	OFF	OFF	ON
3.20s	ON	OFF	OFF	ON	OFF	ON
3.36s	ON	ON	OFF	ON	OFF	ON
3.52s	ON	OFF	ON	ON	OFF	ON
3.68s	ON	ON	ON	ON	OFF	ON
3.84s	ON	OFF	OFF	OFF	ON	ON
4.00s	ON	ON	OFF	OFF	ON	ON
4.16s	ON	OFF	ON	OFF	ON	ON
4.32s	ON	ON	ON	OFF	ON	ON
4.48s	ON	OFF	OFF	ON	ON	ON
4.64s	ON	ON	OFF	ON	ON	ON
4.80s	ON	OFF	ON	ON	ON	ON
4.96s	ON	ON	ON	ON	ON	ON

Step 6. Delay between size 2 and "Off"

Set the time between dispensing size 2 (diode blinks) and cancelling the action. (diode OFF).
If this is set at 1, only one size can be dispensed.

After this step, the Rack Menu is ended

- Default factory setting (At Dual Size).

For UK. Use setting "ALL OFF" (1 size only)

SIZE 2 TIME	ND1	ND2	ND3	ND4	ND5	ND6
1 SIZE/UK	OFF	OFF	OFF	OFF	OFF	OFF
• 2.56s	ON	OFF	OFF	OFF	OFF	ON
2.72s	ON	ON	OFF	OFF	OFF	ON
2.88s	ON	OFF	ON	OFF	OFF	ON
3.04s	ON	ON	ON	OFF	OFF	ON
3.20s	ON	OFF	OFF	ON	OFF	ON
3.36s	ON	ON	OFF	ON	OFF	ON
3.52s	ON	OFF	ON	ON	OFF	ON
3.68s	ON	ON	ON	ON	OFF	ON
3.84s	ON	OFF	OFF	OFF	ON	ON
4.00s	ON	ON	OFF	OFF	ON	ON
4.16s	ON	OFF	ON	OFF	ON	ON
4.32s	ON	ON	ON	OFF	ON	ON
4.48s	ON	OFF	OFF	ON	ON	ON
4.64s	ON	ON	OFF	ON	ON	ON
4.80s	ON	OFF	ON	ON	ON	ON
4.96s	ON	ON	ON	ON	ON	ON

Last drink detection.
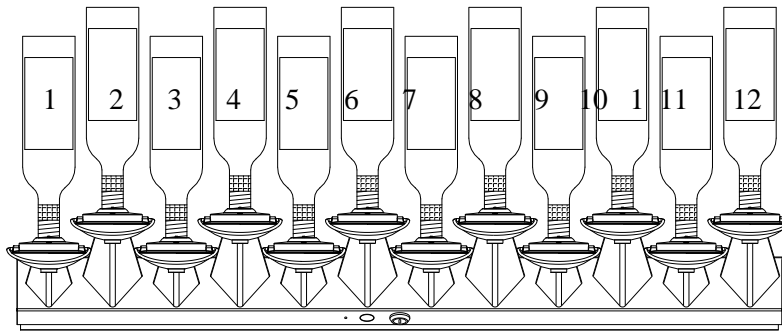
All dispense arms are to be programmed stating the total possible servings (smallest size if 2 sizes are selected) from the bottle type used. Maximum no. Of servings pr arm is 63.

In order NOT to reprogram often, TAP Systems recommends using ONE and the same bottle size pr. Arm ONLY.

As an example we describe setup for a 70 cl. Bottle. And a (smallest) serving size of 2cl.

This means a total of 34 servings is set up.

Arms 1 to 6 are used to program the number of "shots" pr. bottle. Each arm is given it's own "Value" for this purpose.

If a value is needed which is on the same arm that needs programming, the led indicator of this arm will flash with double speed.

Arm no.1	Arm no.2	Arm no.3	Arm no.4	Arm no.5	Arm no.6
Value **1**	Value **2**	Value **4**	Value **8**	Value **16**	Value **32**

Is a bottle to dispense 23 shots, activate arms no. 1, 2, 3 and 5 reaching a total value of 23.

Programming the rack:

Activate the button on the bottom of the rack and keep it pushed whilst switching on the power. The light diode under the panel blinks red and green and arm No. 1 is blinking.

Arm no.1 is now ready to be programmed:

Arm no.1 is to be programmed for 23 shots. (Example). Click arms 1, 2, 3 and 5. Push the button underneath the rack and now arm 2 is blinking to be programmed.

Arm 2 needs 21 shots: Therefore push levers of arms 1, 3 and 5.

Another push of the button underneath the rack… and go to arm no. 3

After programming all arms, the button is kept pushed in for 5 seconds to finalize the setting session and the diode now lights green.

If a number of shots is set as 0, the arm will continue serving without warnings or stopping.

After an arm has reached the number of programmed shots, the arm stops dispensing and registering clicks … A flashing light indicates that a bottle change is required.

In order to start dispensing from a new bottle in this arm, it needs to be reset as follows:

(Reset before inserting a new bottle!)

Click the dispense lever and keep it up, Push the reset button and keep it pushed. After approx. 5 seconds, release the lever and then the button. The arm is now ready to dispense again and a new bottle is inserted.

Installation of PC software Tap 2500 (X3)

Insert the install CD into your CD drive.

Installtion of Setup 1.

Click Setup 1 to install the basis program.

A security prompt appears. Click Run

In the next window choose language. Select English   Click OK

An installation guide appears. Click Next

Click Install

If the program is to be installed in C:\programs: Click OK

A new box appears, saying"Confirm". Click Yes

The program is now installed. Click Done

Installation of UPDATE 155.7. (or whichever latest update is provided)

Click UPDATE 155.7

A security prompt appears. Click Run

"Install Shield wizard" appears (in German). Click Weiter>

And Weiter> again.

And Weiter> once more.

Now click Installieren

After installation, click Fertigstellen

The software is now installed and an icon (DCont with the latest update number) is found on your desktop.

PC program.

Set language

Click icon "Dcont-1.55.7" on the desktop.

At first time opening, a prompt appears in German. Click OK   and this window appears:

DControl 1.55.7

Datei   Personal   Geräte   Produkte   Auswertung   An- und Abmelden   Hilfe

Anlage Nr.   1

Verbindung PC-Dosierer

Direkt

Modem

Offline
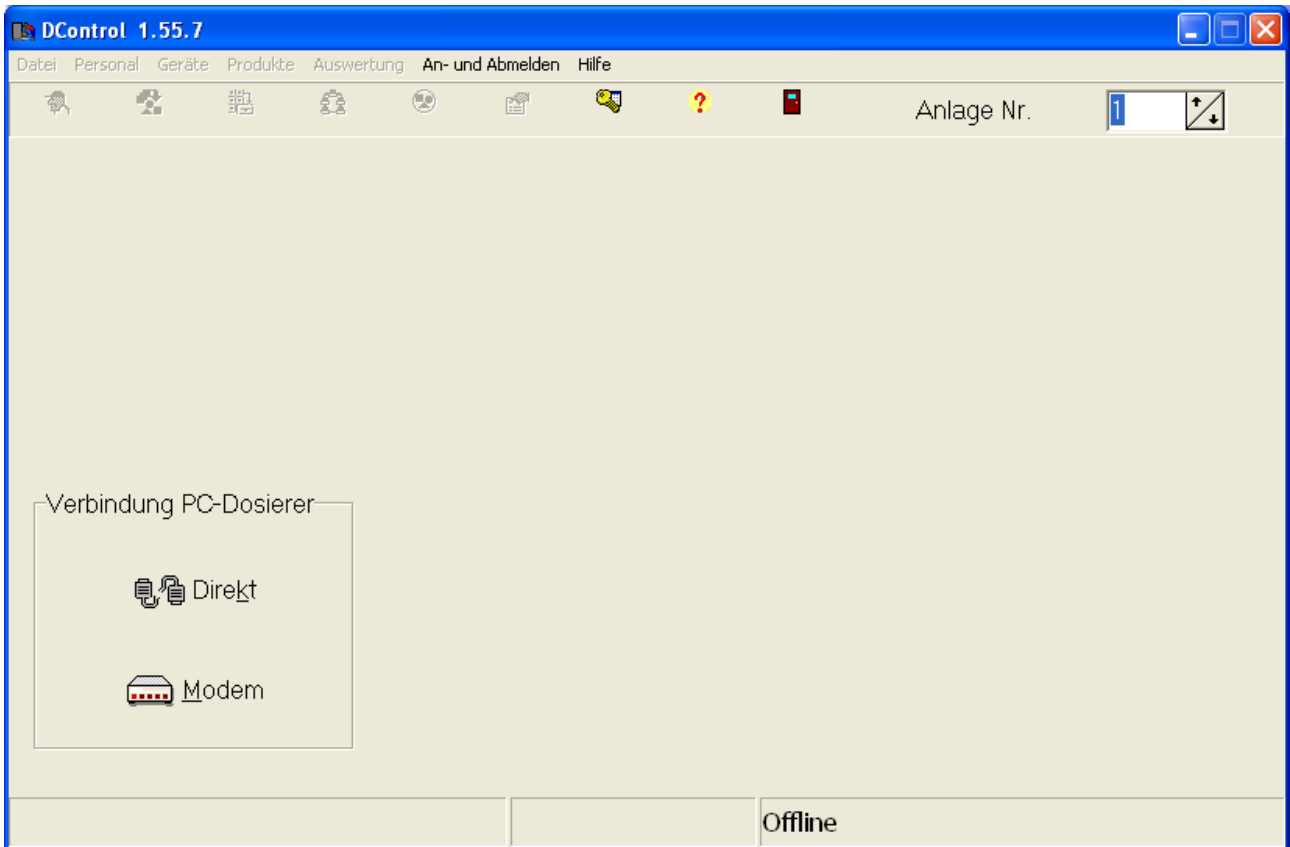
Click ″An-und Abmelden″ and see this warning in German when using the program the first time:

DCont

Erstanmeldung.
Sie werden als "Supervisor" mit allen Rechten angemeldet.
Ihr Anmeldename (Kurzname) ist "Super", das Passwort lautet ebenfalls "Super".
Sie sollten unbedingt Benutzer mit entsprechenden Rechten anlegen,
und den Supervisor-Account löschen, und/oder den Supervisorzugangscode ändern!

OK

Click **OK**

Anmelden

Kurzname   Super

Passwort   xxxxx

Passwort ändern

Abbrechen

Hilfe

OK

Enter a **username** and **password** to log in.

By default both boxes are filled in with ″**Super**″

Click OK
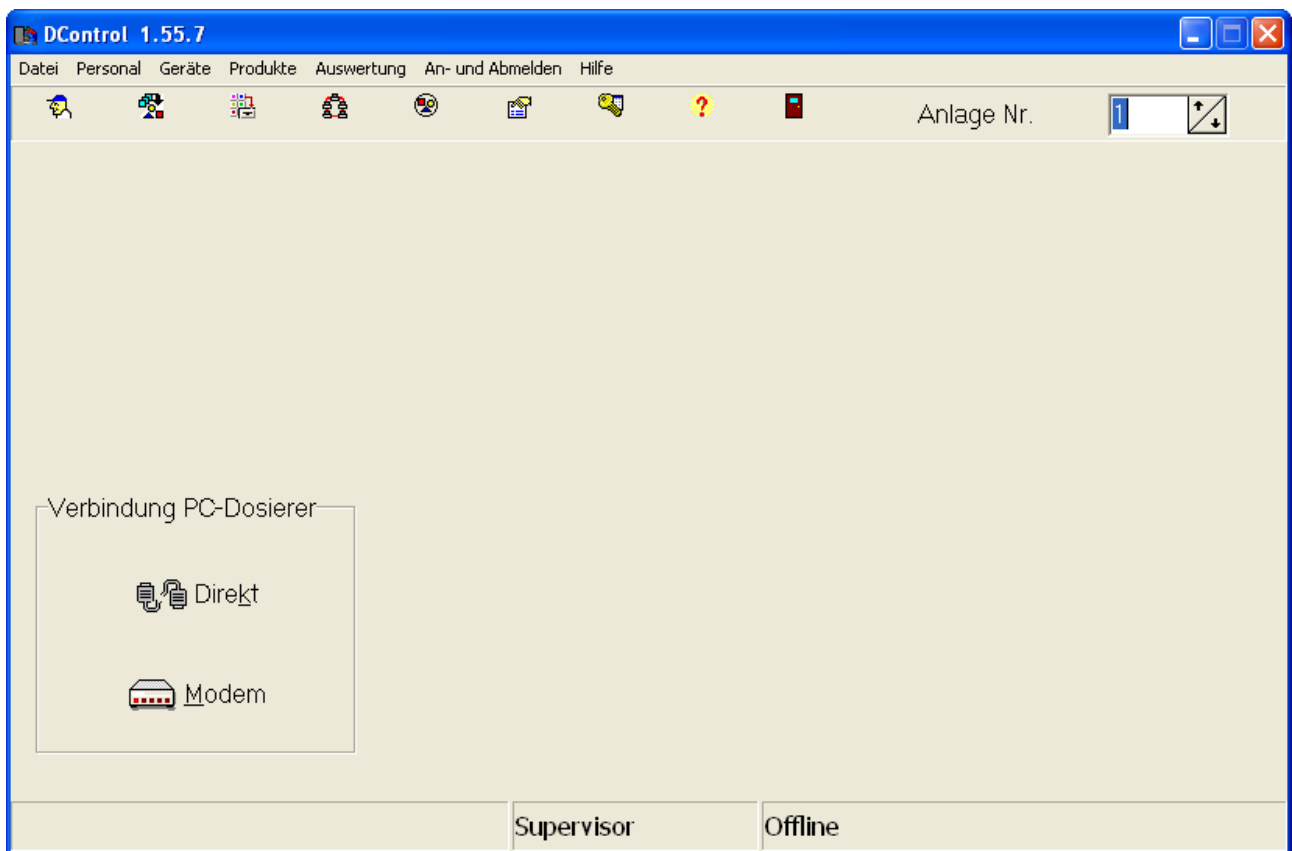
To change language: Click ″**Datei**″.
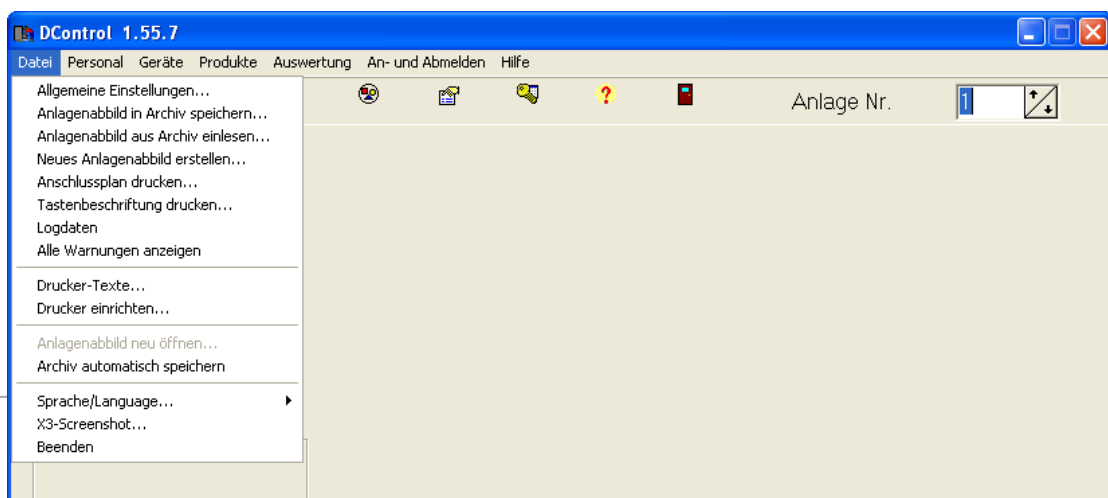
Scroll down to "**Sprache/Language...**"
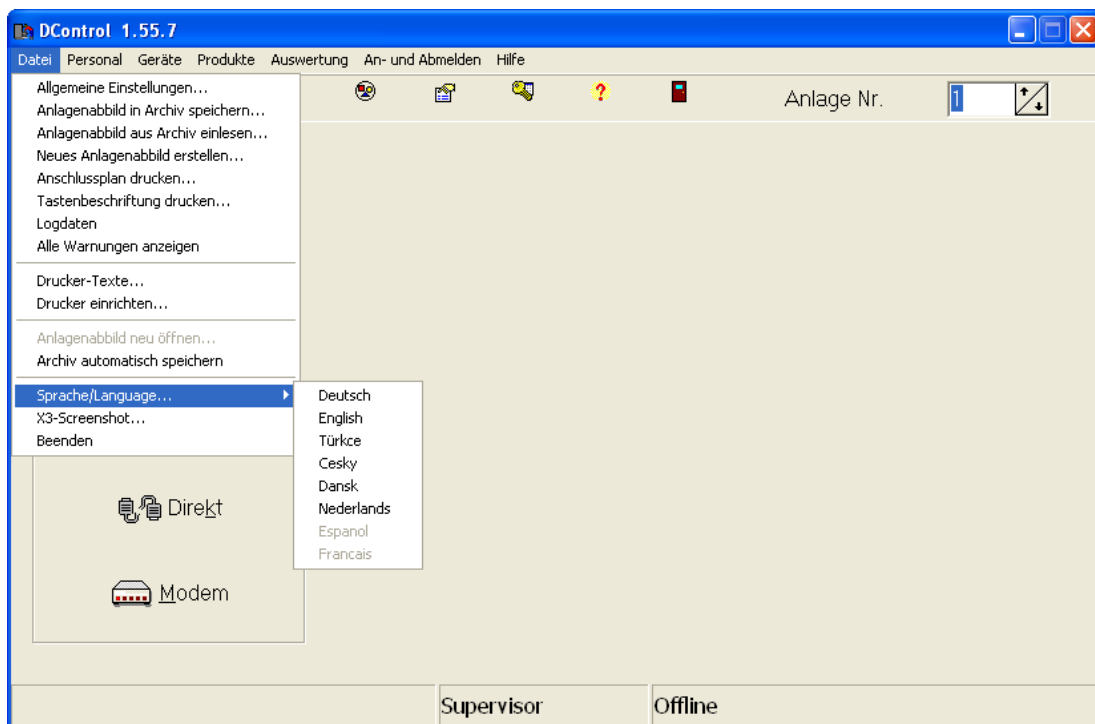
Select "**English**".

Now you can access all pages in English.
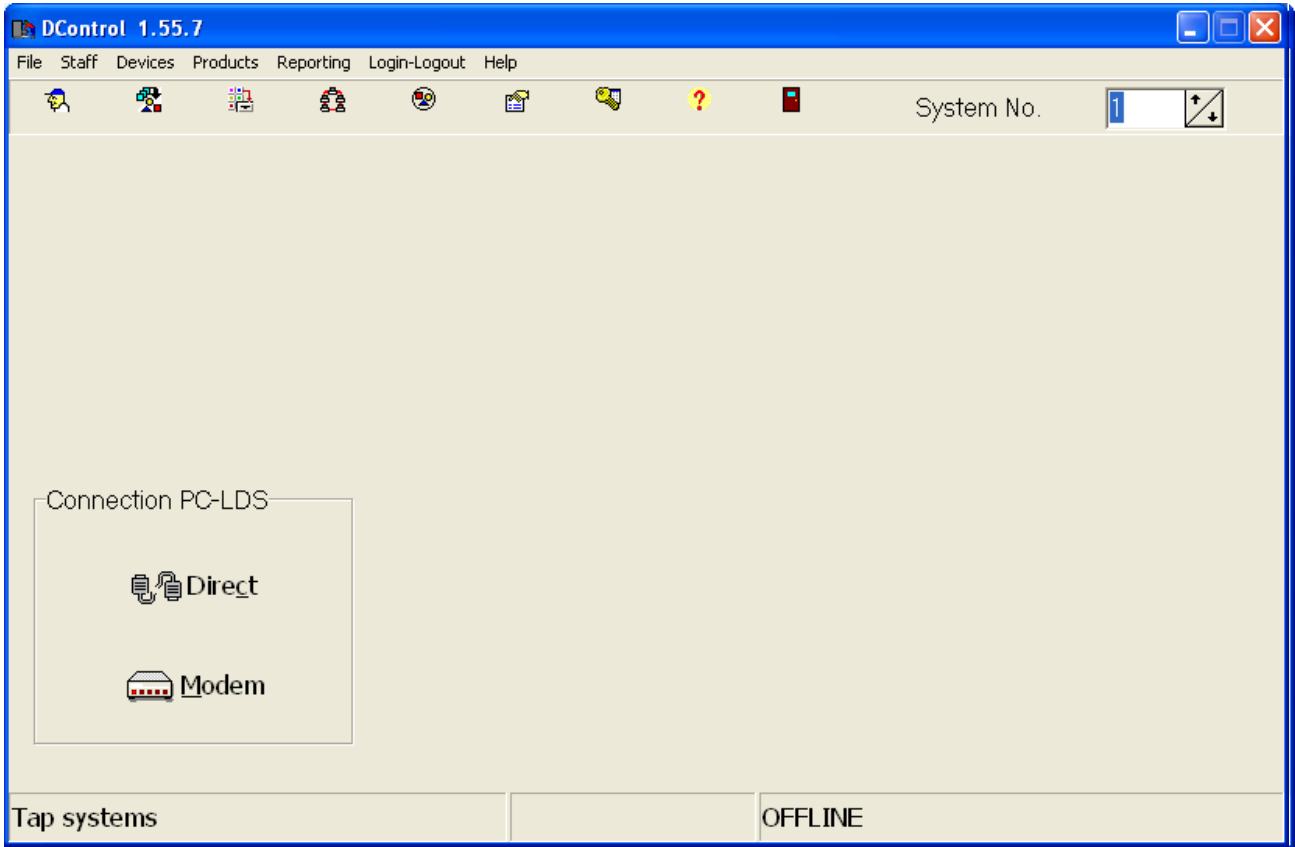
Close the program

Username & Password

To log in you must enter a"**Username**" and a"**Password**". Write"**Super**" in both boxes
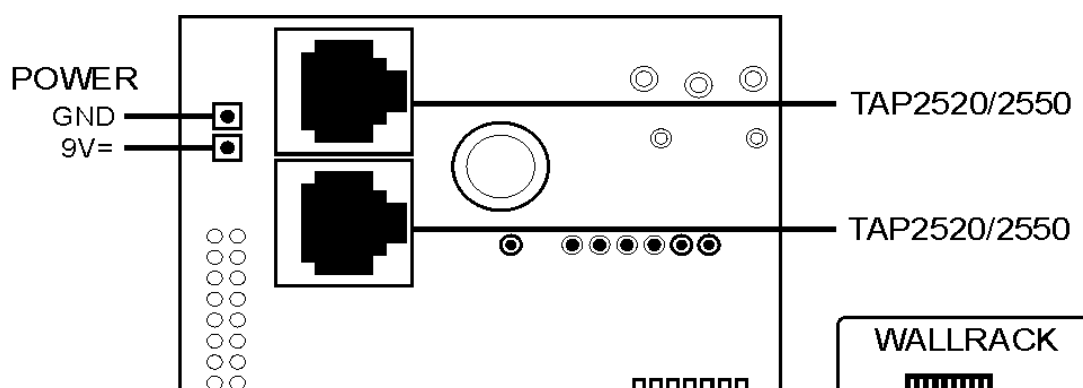and click OK
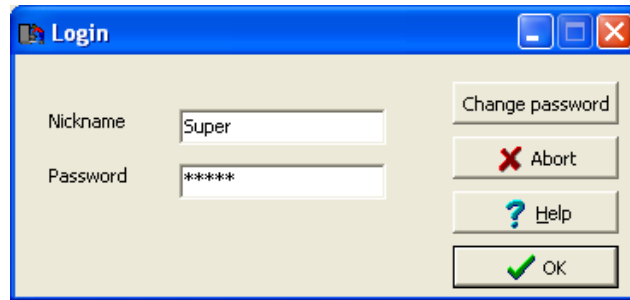
To change your"**Username**" click"**Staff**". In the box under"**Nickname**" enter for example
"**admin1**" in stead of"**Super**" Now the new username is"**admin**1"
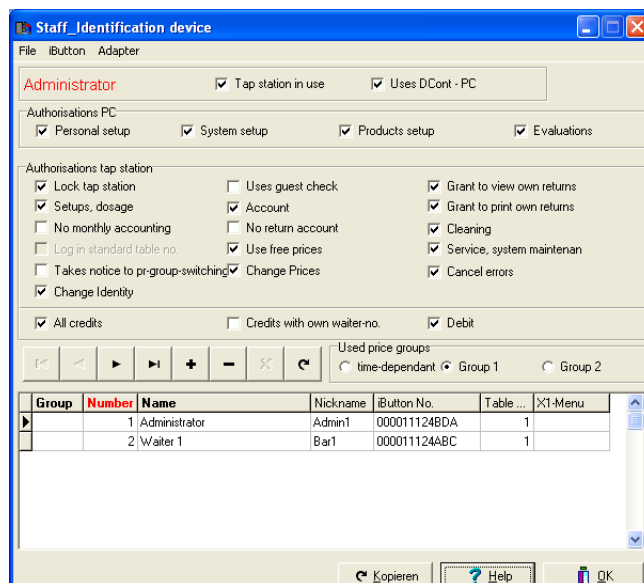
To change the"**Password**" click on Change password and type a new password in the
boxes as shown here.
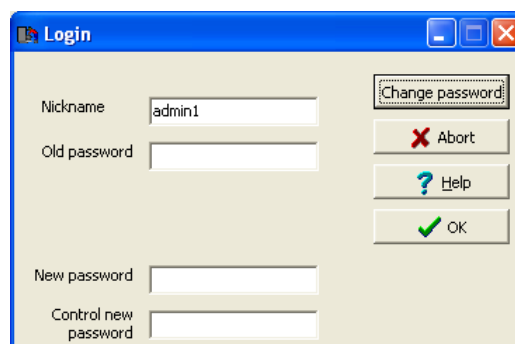
Connections Scheme Tap 2500.

Connect Tap 2500 to PC:

Use a cable as described below:.

1 x Sub D 9pol. Male connector, 1 x Sub D 9pol. Female connector & 2 m. LIYCY 5 x 0,14 mm cable.

Connect as shown here:

TAP 2500   PC

DB9M   DB9F

2 ————————————— 2
3 ————————————— 3
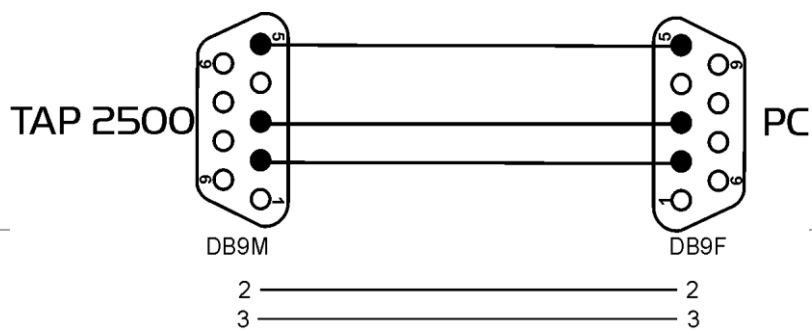
Power TAP2500 AFTER connecting the unit to the PC.

If the PC has NO serial connection, use a USB/Serial adapter as shown below (remember to download the driver for this device before connecting it).

Click the Program icon on the desktop.

Click ″**Login-Logout**″.

Write ″**Super**″ in both boxes to log on.

Click   OK

Click ″**file**″ in the toolbar.

Go to ″**General Settings**″.

In ″**General Settings**″ adjust the ″**Com Port Direct**″ to match the COM port on the PC which was selected for this connection.
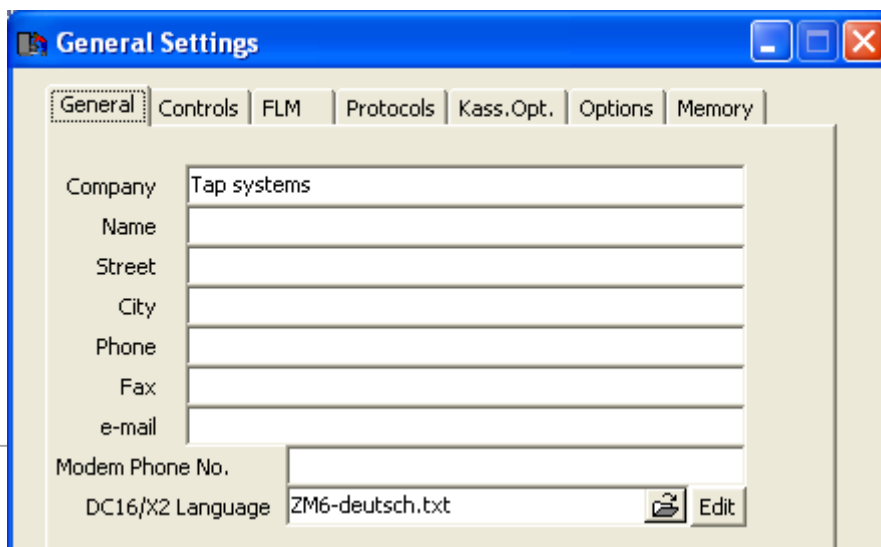
In case that transmission problems occur between TAP 2500 and the PC, please change ″**Stopbits**″ from **2** to **1**.
In this window you also select VAT Values. Go to the box next to ″Group 1″ and enter your VAT %.
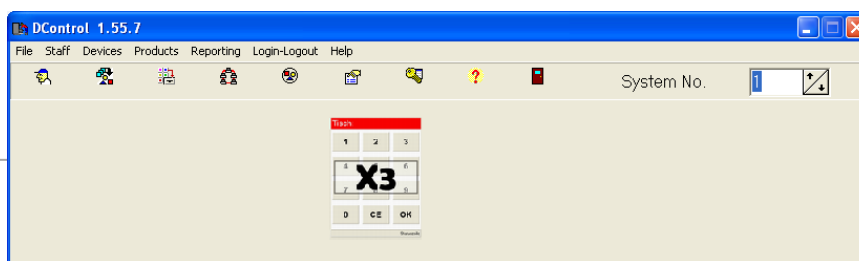Click OK

Transfer of data:

Data transfers should be made after every change in the program software, incl. setting the clock, or updating the software version.
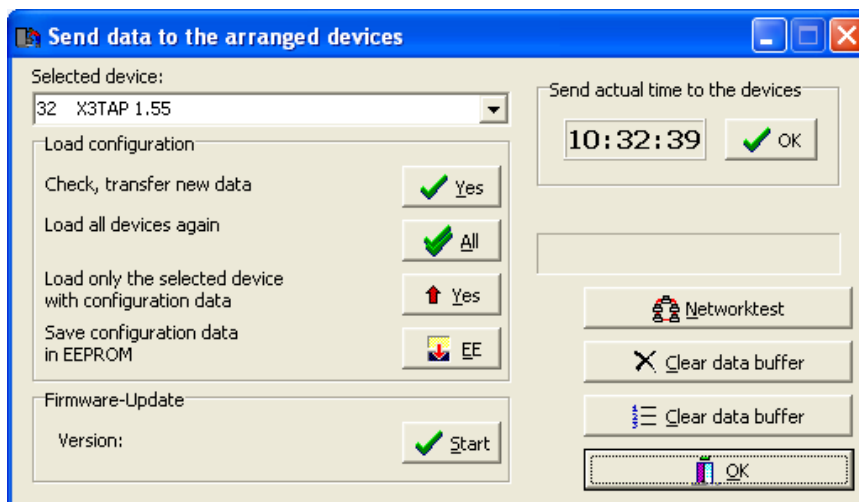Click Direct
The Pc software and the TAP2500 unit should now be connected and a text appears on the bottom right of the screen, saying ″**connected**″
Click Transfer data

Click on **32 X3TAP 1.55** in the box and click | **All** | next to ″**Load all devices again″.**

The system now transfers all data/updates to the TAP2500 unit and all changes are made.

To change or correct the time on the unit, click **Direct / Transfer data** and the **OK** next to the actual time.
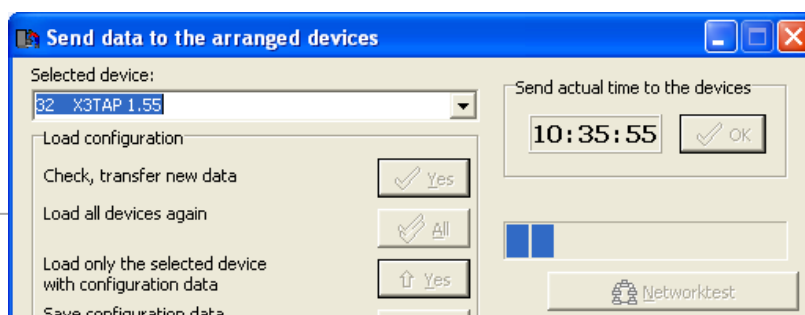
To update ″**Firmware**″
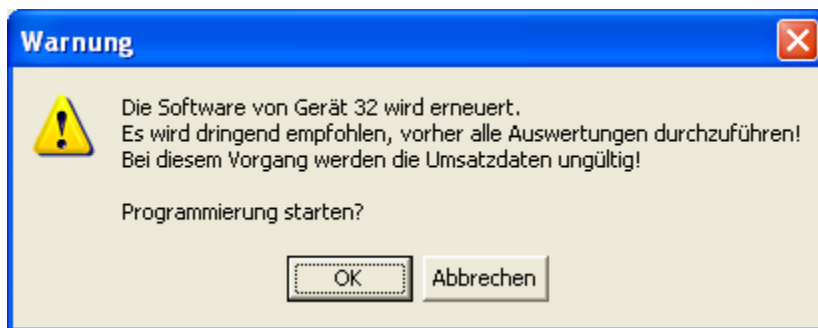
Click | **Direct** |

Click | **Transfer data** |

Click **32 X3TAP 1.55**
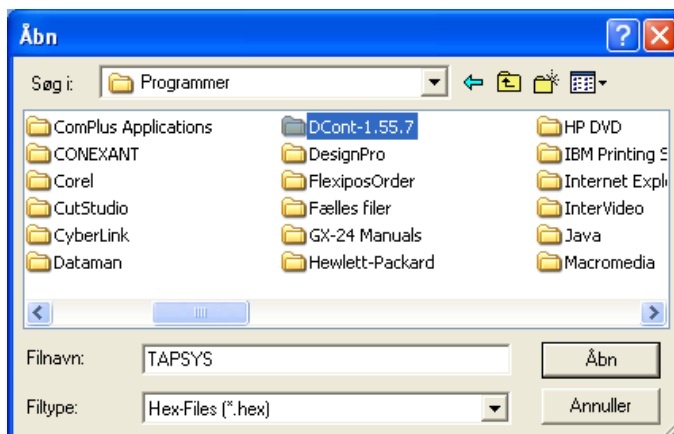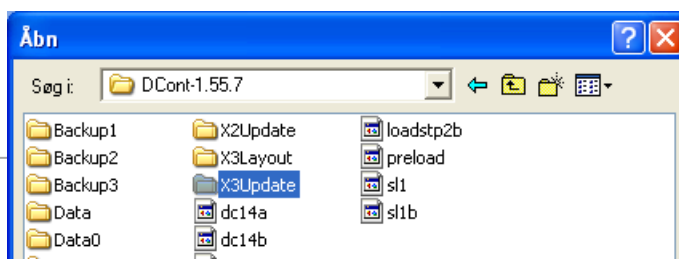
Click | **Start** | in ″**Firmware-Update**″

When seeing a warning prompt, click OK

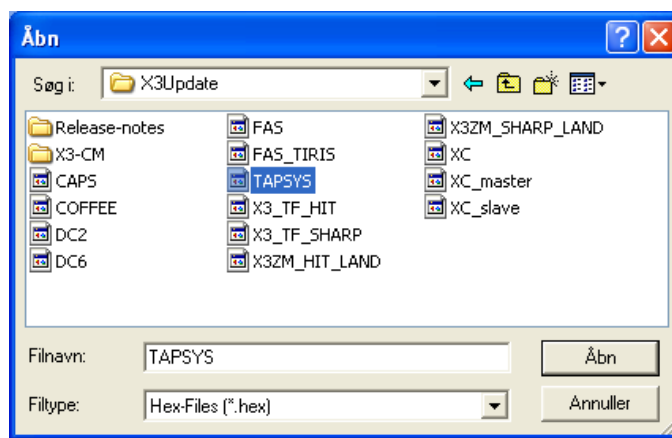
Find folder **DCont-(version…)** and double click it.

Double click the folder **X3Update.**
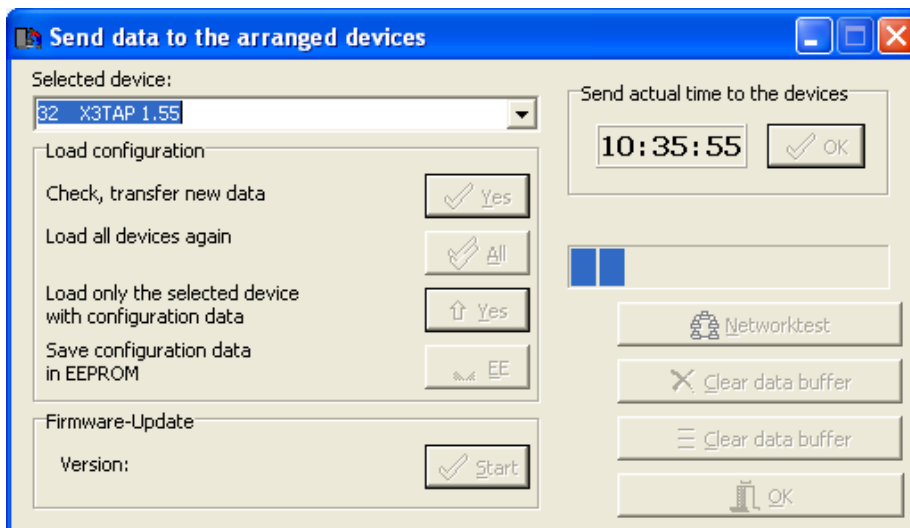
Select **TAPSYS** and click Open

The program now starts installation of the latest firmware update.
Duration: 3-4 minutes.
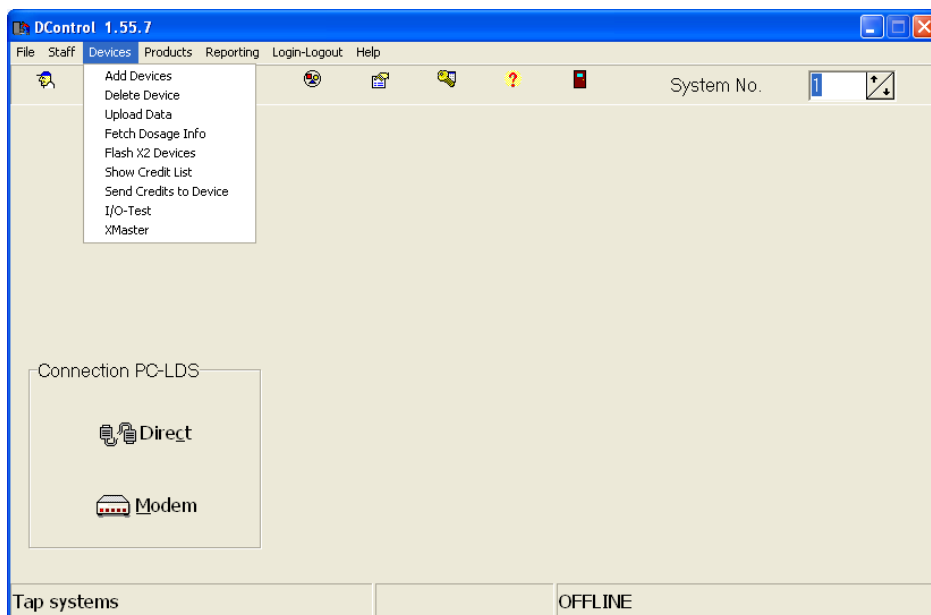
Click OK when the update finishes.

Setup Device Tap 2500 (X3):
Click "**Devices**".
Click "**Add a device**".

Select "**X3 TAP-Systems**"

Create Device Tap 2500 (X3):

Click Create Device
Click Create

Tap 2500 (X3) is now created and ready for the next step.

Create Product List:

Click "**Products**"
Click "**Product List**"
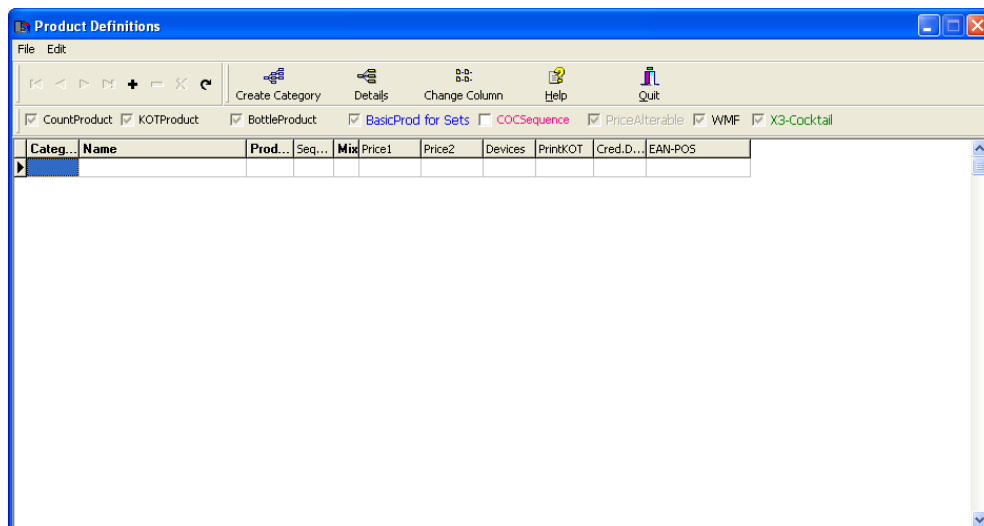
In order to create a product list, a category must be created first.

In the Category window you can create preferred groups like: "Vodkas", "Whiskies", "Single Malts" or just "Spirits" and "Draught beers" or even "Sodas".

Click ″**Create Category**″
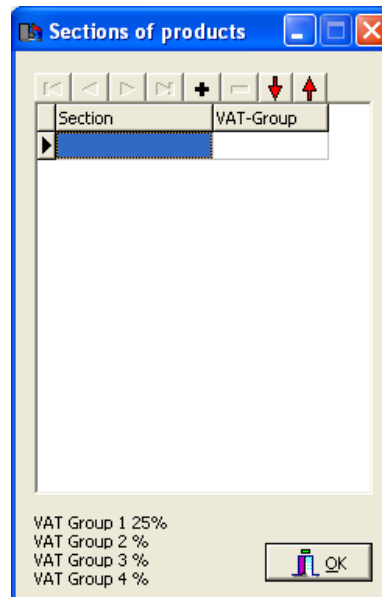
Create Product List:

Click in the first box and write ″**Spirits**″.

Click in the next box and write ″**1**″ for VAT Group 1.

Click ″**+**″; A new line appears to enter a new category.

Click the first box in this line and write ″**Cocktail**″.

Click the next box and write ″**1**″ for VAT Group 1.

Continue like this to create more categories.

Click **Fertig (done)**
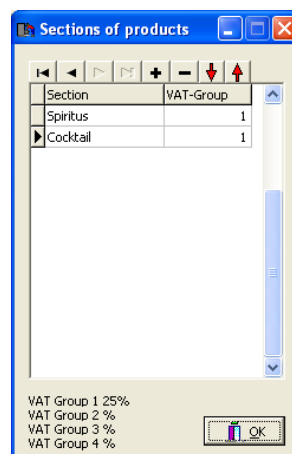
Now you can create product lists.

Put your curser in the empty box under ″**C**ategory″ and click the arrow.

Click the ″**Spirits**″ box.
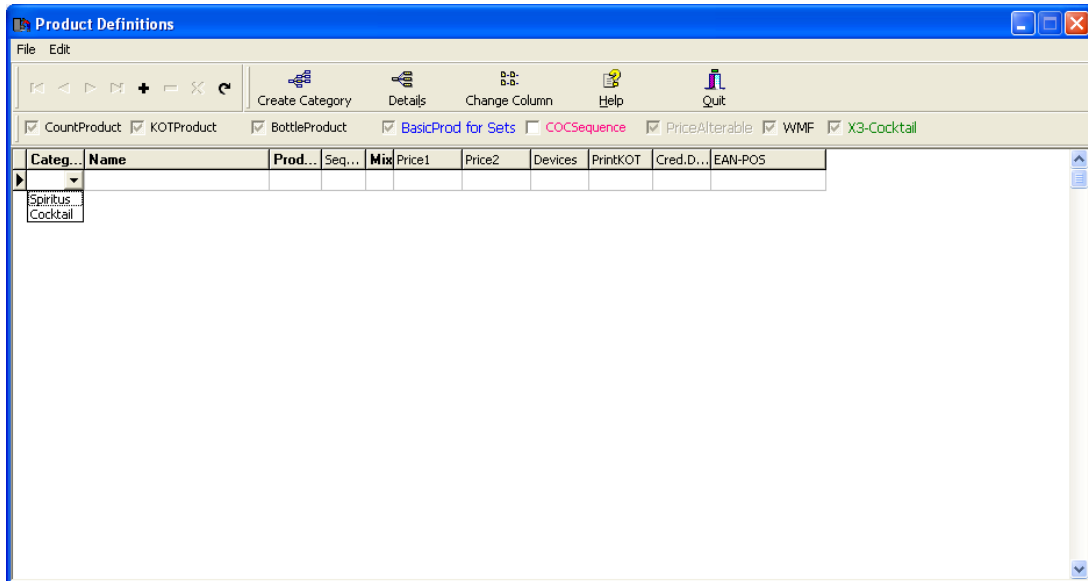
Enter the empty box under ″**Name**″ and enter the first PLU product name.

Enter the empty box under ″**Prod**″ and write **10** (Wich is the first possible PLU number).

Enter the empty box under ″**Price 1**″ and enter the default price for this product**.**

Enter the empty box under ″**Price 2**″ and enter a second (happy hour?) price for this product.

Tick the box called ″**Bottle product**″.

Click ″**+**″ on the toolbar and a new line appears.

Enter the empty box under ″**Name**″ and enter the second PLU product name.

Enter the empty box under ″**Prod**″ and write **11** (Consecutive PLU number).

Enter the empty box under ″**Price 1**″ and enter the default price for this product**.**

Enter the empty box under ″**Price 2**″ and enter the second price (happy hour?) for this product.

Tick the box called ″**Bottle Product**″.

Proceed like this until the entire PLU list has been created.

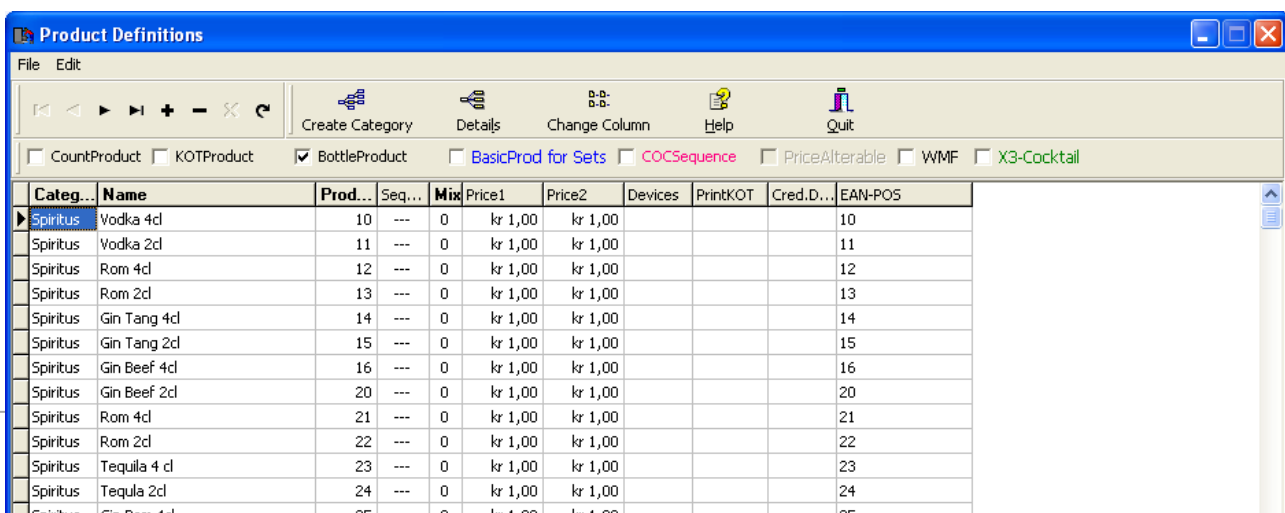Mind that each size of the same product is to be given its individual line (PLU Number) in the menu! (See image below.)

Categ...	Name	Prod...	Seq...	Mix	Price1	Price2	Devices	PrintKOT	Cred.D...	EAN-POS	
Spiritus	Vodka 4cl	10	---	0	kr 1,00	kr 1,00				10	
Spiritus	Vodka 2cl	11	---	0	kr 1,00	kr 1,00				11	
Spiritus	Rom 4cl	12	---	0	kr 1,00	kr 1,00				12	
Spiritus	Rom 2cl	13	---	0	kr 1,00	kr 1,00				13	
Spiritus	Gin Tang 4cl	14	---	0	kr 1,00	kr 1,00				14	
Spiritus	Gin Tang 2cl	15	---	0	kr 1,00	kr 1,00				15	
Spiritus	Gin Beef 4cl	16	---	0	kr 1,00	kr 1,00				16	
Spiritus	Gin Beef 2cl	20	---	0	kr 1,00	kr 1,00				20	
Spiritus	Rom 4cl	21	---	0	kr 1,00	kr 1,00				21	
Spiritus	Rom 2cl	22	---	0	kr 1,00	kr 1,00				22	
Spiritus	Tequila 4 cl	23	---	0	kr 1,00	kr 1,00				23	
Spiritus	Tequla 2cl	24	---	0	kr 1,00	kr 1,00				24	

Cocktails are configured as shown below:

Enter the empty box under **"Category"** and click on the arrow.

Click the **"Cocktai**l**"** box.

Enter the empty box under **"Name"** and enter the **name of the cocktail you wish to configure**.

Enter the empty box under **"Prod"** and write **200.** (In order to create a proper distance from previous category)

Enter the empty box under **"Price 1"** and enter the default price of this cocktail.

Enter the empty box under **"Price 2"** and enter the second (happy hour?) price of this cocktail.

Tick the box**"KOT Product"** and the box **"X3 Cocktail"**.

Click the**"+"** on the toolbar and a new line appears.

Enter the empty box under **"Name"** and write the **name of the second cocktail.**

Enter the empty box under **"Prod"** and write **201.**

Enter the empty box under **"Price 1"** and write the price of this cocktail**.**

Enter the empty box under **"Price 2"** and write the second (happy hour?) price of this cocktail.

Tick boxes **"KOT Product"** and**"X3 Cocktail"**.

Proceed like this until the entire cocktail list has been created.

Click Done

Product Definitions

File   Edit

Create Category   Details   Change Column   Help   Quit

☐ CountProduct   ☑ KOTProduct   ☐ BottleProduct   ☐ BasicProd for Sets   ☐ COCSequence   ☐ PriceAlterable   ☐ WMF   ☑ X3-Cocktail

Categ...	Name	Prod...	Seq...	Mix	Price1	Price2	Devices	PrintKOT	Cred.D...	EAN-POS
Spiritus	Cuba Orange 2cl	155	---	0	kr 1,00	kr 1,00				155
Spiritus	Galiano 4cl	156	---	0	kr 1,00	kr 1,00				156
Spiritus	Galiano 2cl	157	---	0	kr 1,00	kr 1,00				157
Spiritus	Minnto 4cl	158	---	0	kr 1,00	kr 1,00				158
Spiritus	Minnto 2cl	159	---	0	kr 1,00	kr 1,00				159
Spiritus	Sambuca 4cl	160	---	0	kr 1,00	kr 1,00				159
Spiritus	Sambuca 2cl	161	---	0	kr 1,00	kr 1,00				161
Cocktail	Cuba Erotic	500	---	0	kr 1,00	kr 1,00				500
Cocktail	Død Tante	501	---	0	kr 1,00	kr 1,00				501
Cocktail	Filur	502	---	0	kr 1,00	kr 1,00				502
Cocktail	Gammel Have	503	---	0	kr 1,00	kr 1,00				503

Placing products:

All products will now be given an address on the wall racks.
Click on the "**X3**" icon.

TAP-System 32

Drag+drop products from list to product area

Product list

Placing products
Size 1.

Placing products
Size 2.

Rack address

Dispense time

Volume needed for cocktails

Starting with wall rack no. 1, select the product in the product list which should be on arm no. 1. Drag and drop the product from the list into the box next to no. 1, under **″Product size 1″**.

Continue like this until all available arms of the first racks have been allocated to a product. Mind that if a six rack is used, only the upper six boxes are filled in.

To place products on rack no. 2, click the small arrows up/down to select the rack.

Continue as described above until all racks have been "filled" with products.

In case that 2 sizes pr dispense arm are required, the second size of easch product is placed in the column under **″Product size 2″**

Remember to use the second size PLU number from the product list.

Now the time of the dispense / volume for each drink is set.

Volumes are depending on product viscosity. As an example, 2cl of Baileys takes more time to pour than 2cl of vodka. Therefore every arm must be calibrated individually to set the correct time.

As a guideline, 2cl of vodka requires a time setting of 1,50. (Please see the scheme in the back of this manual to find recommended settings for commonly used spirits).

The ″cl″ column is used only, if the racks are used to serve cocktails as well:

If a cocktail ingredient is 4 cl of vodka, use the small up/down arrows to scroll and set at value 4.

If 2cl is needed, scroll to digit 2.

This function is used to serve the correct quantity of a product for any cocktail required.

Creating cocktails:

If the cocktail feature is desired, this is how recipes are created.

Click Cocktails

Click the arrow in front of the"**Spirits**" box.

Select "**Cocktai**l"
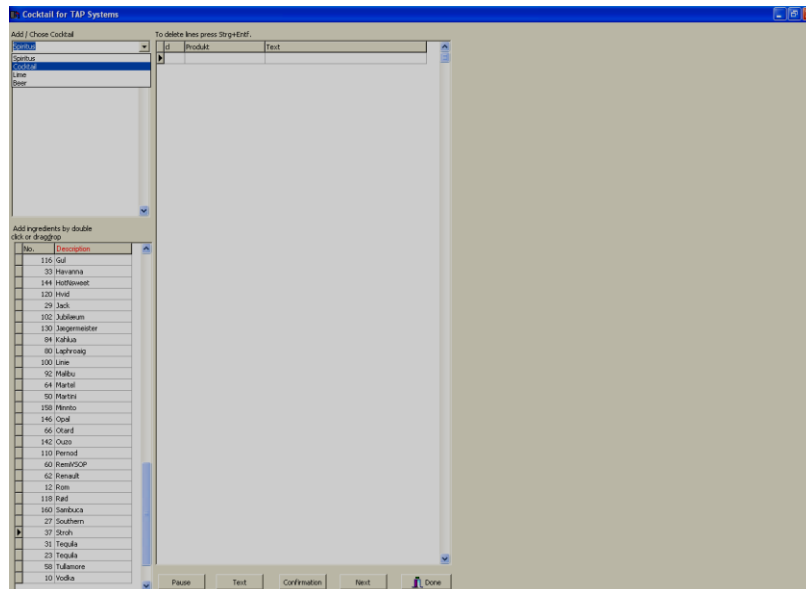
The cocktail menu created in the "**Product list**" now appears.
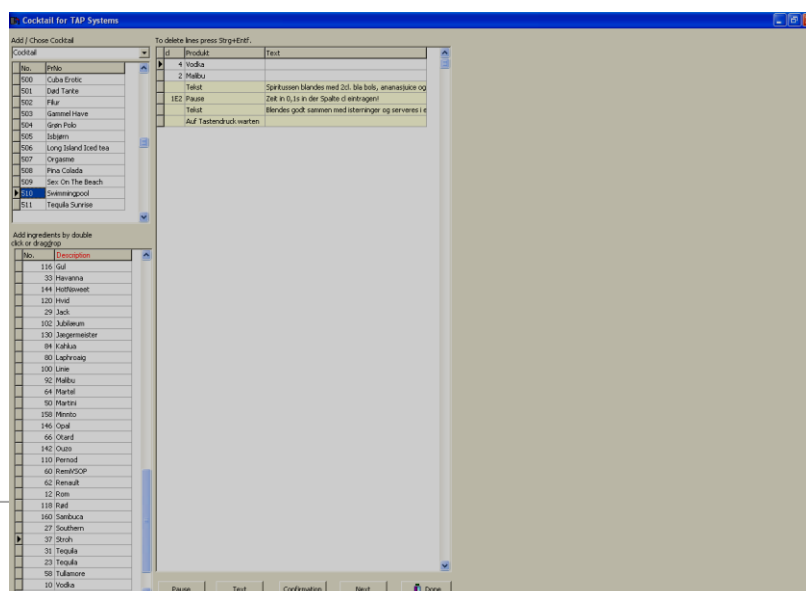
Cocktail menus are created.
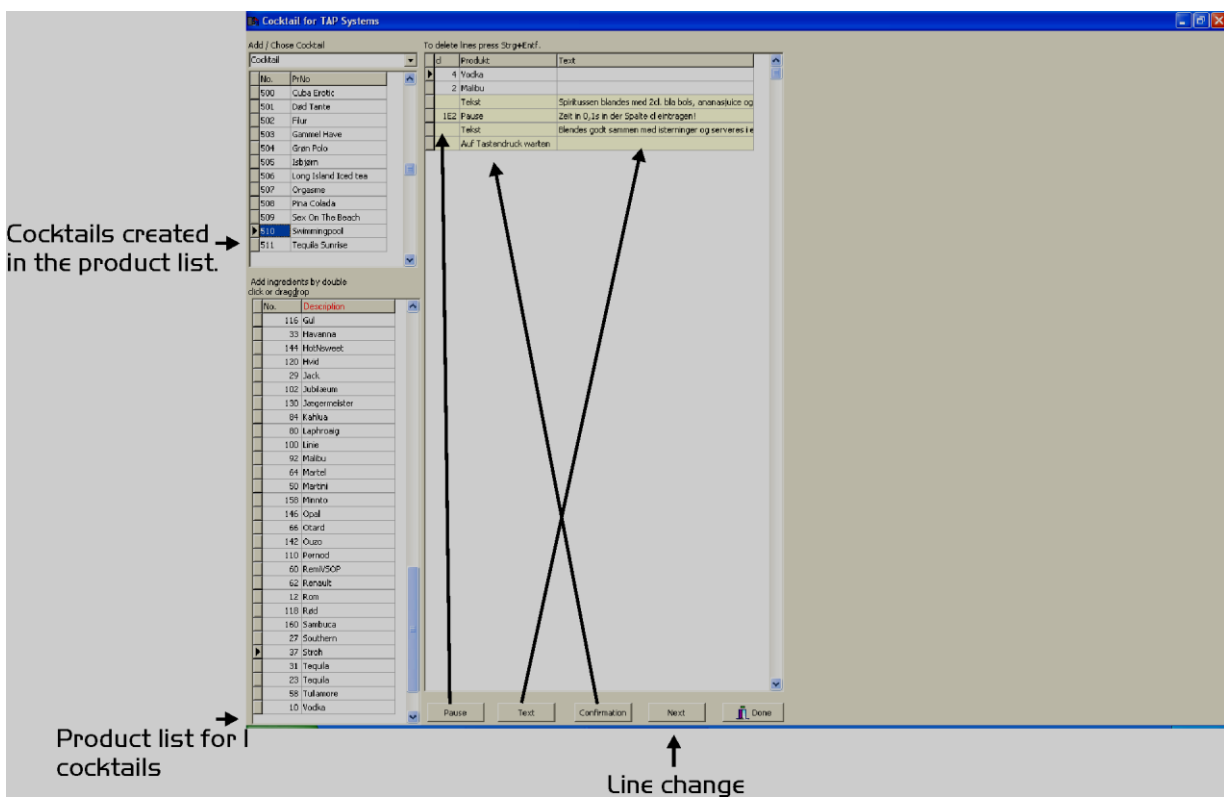
Here all menus for each cocktail in the product list are created.

Click on a cocktail name. In the box to the right we drag and drop all products needed for the specific cocktail and a list of other products, type of glasses, ice and condiments is created.

Click on the product in the product list and drag and drop it to the first line of the box to the right.

Click the box under "cl" and enter the volume in cl needed of this product.

After all products have been added with the correct volumes in cl, a text can be written.

Enter Text so a yellow line appears. Write any free text here: Type of glass, ice, condiments etc. If there is no sufficient space, add another line by clicking Pause and put in a break to add text line no 2. Onto the screen of the TAP2500 unit . Click on text again to add line number 2 on the screen.

Click Confirm and then touch the OK button on the touch screen to make the recipe disappear. After all products and working methods have been entered, click Done

Reporting:

If you wish to save or print reports of turnovers, results, errors, etc., click on Reporting.
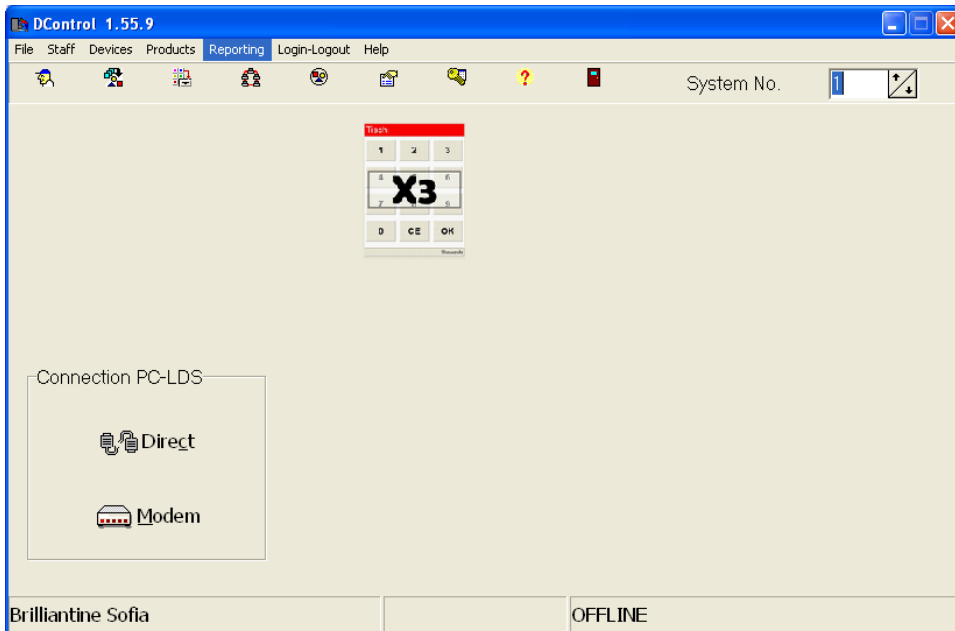
In the "Data Evaluation" window, select which reports are to be displayed, printed or transferred to MS Excel. Select a "**start date**" and a "**end date**"
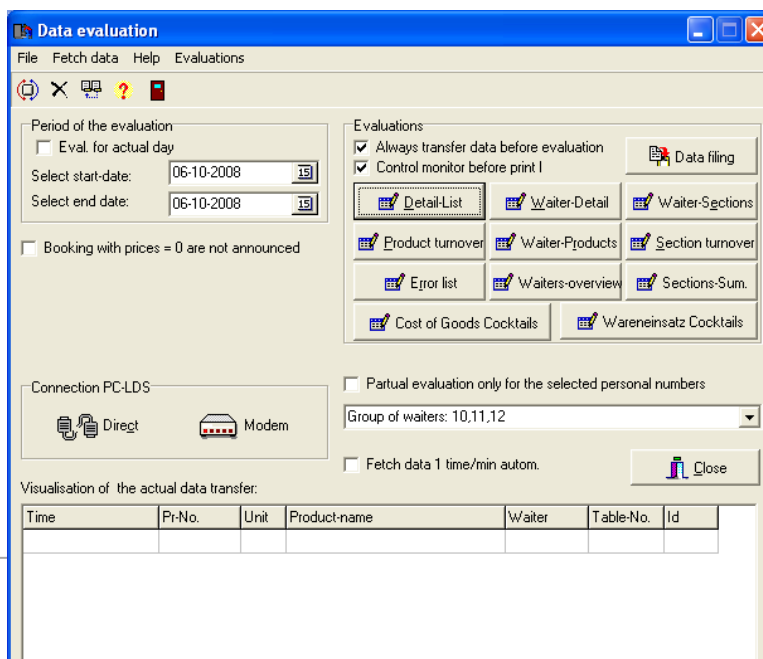
Click: "**Evaluations**"
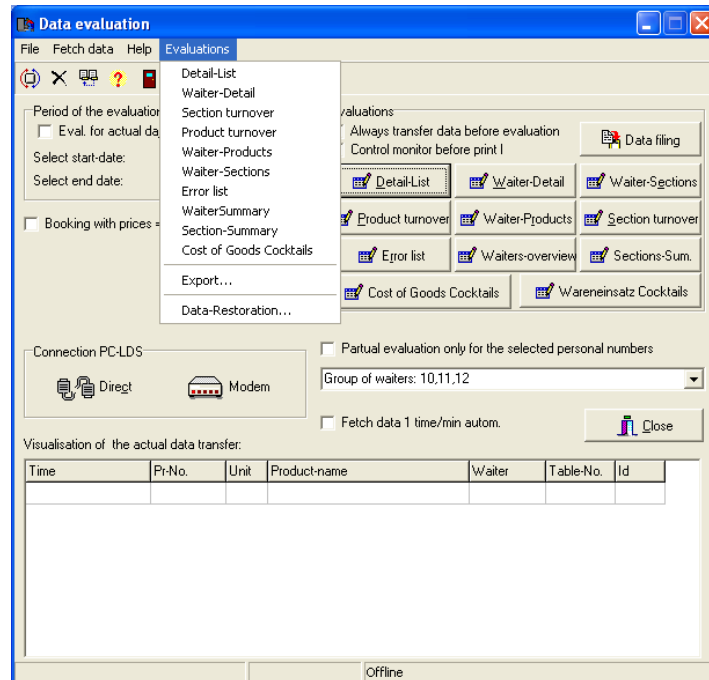
Click "**Export**"
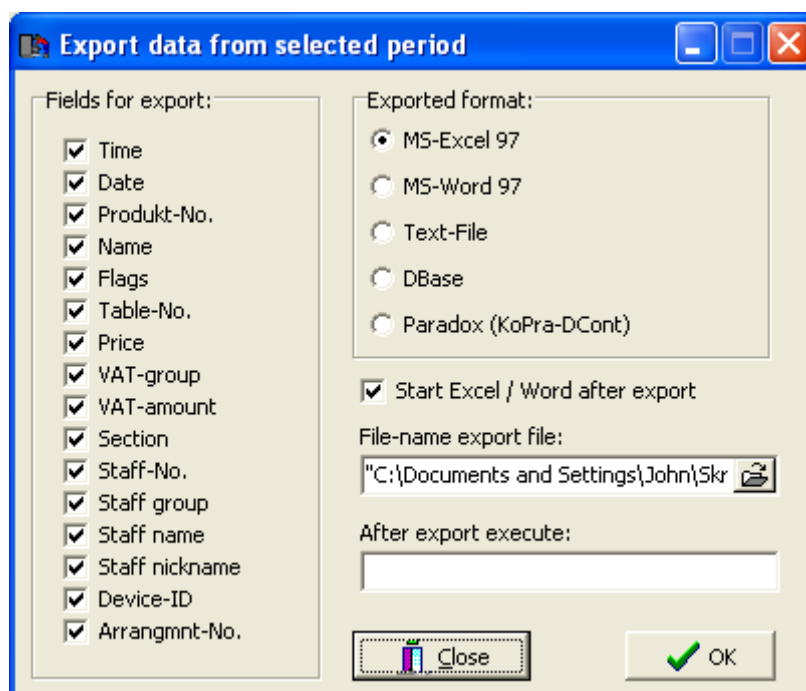
Click the folder icon in the browser window.

Select a destination for the excel file.
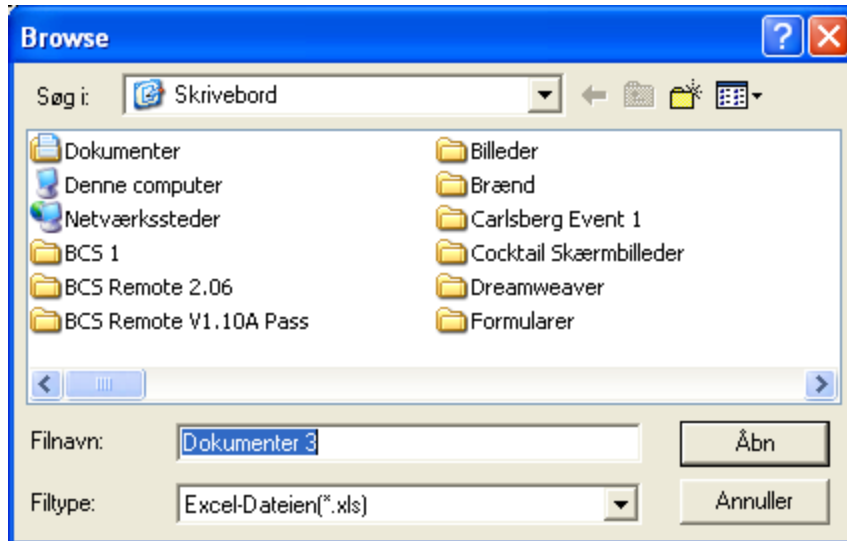
Give the Excel file a name. F.ex. Documents 3 and click Open
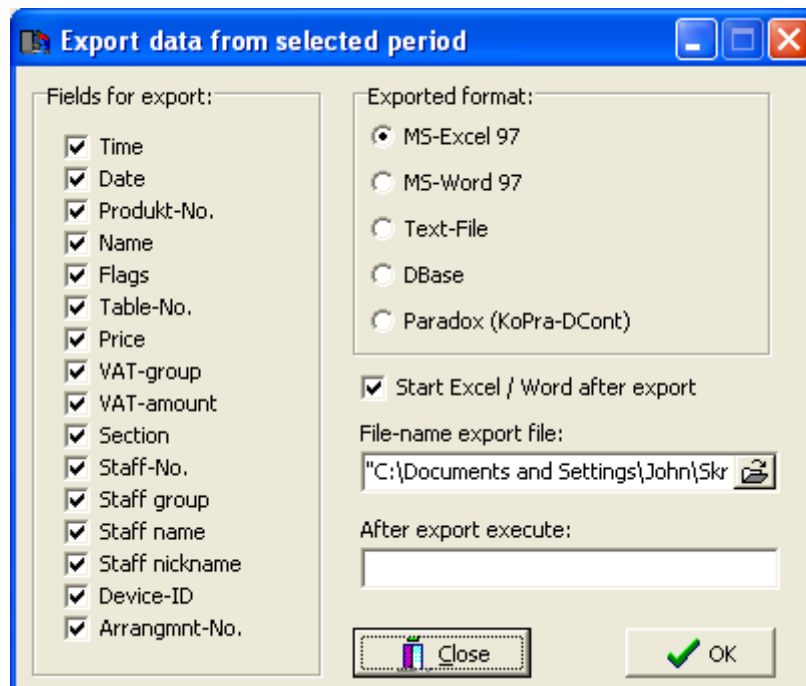
Click OK and the Excel file is exported to its destination.

Open the excelfile at its destination.

The Spreadsheet now shows all dispense data from the system.

If a more detailed report is desired, go back to the "Data Evaluation" window.

And select:

Detail list

Waiter Turnover

Total Waiter Turnover

Turnover pr Product

Waiter / Product turnover

Section Turnover

Error List

Waiter Overview

All Sections Total

Detail list

Detailed return from 9.09.2008 - 9.09.2008

Tap systems

Ti	Co	Pr.-	Name	Sectio	VAT-Grp.	VAT	Price	Waiter	Pr.Grp.	Table-	Dev.N	Error	Ct.
10:36	1	35	Lagavulin 3cl	Spiritus		kr 12,00	kr 60,00	Unbek	1	0		--	
10:36	1	35	Lagavulin 3cl	Spiritus		kr 12,00	kr 60,00	Unbek	1	0		--	
10:36	1	41	Jameson 25nf	Spiritus		kr 2,00	kr 10,00	Unbek	1	0		--	
10:36	1	41	Jameson 25nf	Spiritus		kr 2,00	kr 10,00	Unbek	1	0		--	
10:36	1	43	J&B 25ml	Spiritus		kr 2,00	kr 10,00	Unbek	1	0		--	
10:36	1	50	Provenence Whisky 50	Spiritus		kr 6,00	kr 30,00	Unbek	1	0		--	
10:36	1	50	Provenence Whisky 50	Spiritus		kr 6,00	kr 30,00	Unbek	1	0		--	
10:36	1	12	Vodka 3d	Spiritus		kr 7,00	kr 35,00	Unbek	1	0		--	
10:37	1	10	Jack Daniels 3 cl	Spiritus		kr 9,60	kr 48,00	Unbek	1	0		--	
10:37	1	16	Chivas 3cl	Spiritus		kr 9,60	kr 48,00	Unbek	1	0		--	
10:46	1	16	Chivas 3cl	Spiritus		kr 9,60	kr 48,00	Unbek	1	2		--	
10:46	1	10	Jack Daniels 3 cl	Spiritus		kr 9,60	kr 48,00	Unbek	1	2		--	
10:46	1	12	Vodka 3d	Spiritus		kr 7,00	kr 35,00	Unbek	1	2		--	
10:46	1	50	Provenence Whisky 50	Spiritus		kr 6,00	kr 30,00	Unbek	1	2		--	
10:47	1	50	Provenence Whisky 50	Spiritus		kr 6,00	kr 30,00	Unbek	1	2		--	
10:47	1	43	J&B 25ml	Spiritus		kr 2,00	kr 10,00	Unbek	1	2		--	
10:47	1	41	Jameson 25nf	Spiritus		kr 2,00	kr 10,00	Unbek	1	2		--	
10:47	1	41	Jameson 25nf	Spiritus		kr 2,00	kr 10,00	Unbek	1	2		--	
10:47	1	35	Lagavulin 3cl	Spiritus		kr 12,00	kr 60,00	Unbek	1	2		--	
10:47	1	35	Lagavulin 3cl	Spiritus		kr 12,00	kr 60,00	Unbek	1	2		--	
10:50	1	35	Lagavulin 3cl	Spiritus		kr 12,00	kr 60,00	Unbek	1	2		--	
10:50	1	35	Lagavulin 3cl	Spiritus		kr 12,00	kr 60,00	Unbek	1	2		--	
10:50	1	41	Jameson 25nf	Spiritus		kr 2,00	kr 10,00	Unbek	1	2		--	
10:50	1	41	Jameson 25nf	Spiritus		kr 2,00	kr 10,00	Unbek	1	2		--	
10:51	1	43	J&B 25ml	Spiritus		kr 2,00	kr 10,00	Unbek	1	2		--	
10:59	1	43	J&B 25ml	Spiritus		kr 2,00	kr 10,00	Unbek	1	2		--	
10:59	1	41	Jameson 25nf	Spiritus		kr 2,00	kr 10,00	Unbek	1	2		--	
10:59	1	41	Jameson 25nf	Spiritus		kr 2,00	kr 10,00	Unbek	1	2		--	
10:59	1	35	Lagavulin 3cl	Spiritus		kr 12,00	kr 60,00	Unbek	1	2		--	
10:59	1	35	Lagavulin 3cl	Spiritus		kr 12,00	kr 60,00	Unbek	1	2		--	
11:01	1	35	Lagavulin 3cl	Spiritus		kr 12,00	kr 60,00	Unbek	1	2		--	
11:01	1	35	Lagavulin 3cl	Spiritus		kr 12,00	kr 60,00	Unbek	1	2		--	
11:01	1	41	Jameson 25nf	Spiritus		kr 2,00	kr 10,00	Unbek	1	2		--	
11:01	1	41	Jameson 25nf	Spiritus		kr 2,00	kr 10,00	Unbek	1	2		--	
11:02	1	43	J&B 25ml	Spiritus		kr 2,00	kr 10,00	Unbek	1	2		--	
11:51	1	10	Jack Daniels 3 cl	Spiritus		kr 9,60	kr 48,00	Unbek	1	2		--	
12:05	1	16	Chivas 3cl	Spiritus		kr 9,60	kr 48,00	Unbek	1	2		--	
12:05	1	10	Jack Daniels 3 cl	Spiritus		kr 9,60	kr 48,00	Unbek	1	2		--	
12:06	1	12	Vodka 3d	Spiritus		kr 7,00	kr 35,00	Unbek	1	2		--	
12:06	1	50	Provenence Whisky 50	Spiritus		kr 6,00	kr 30,00	Unbek	1	2		--	
12:06	1	50	Provenence Whisky 50	Spiritus		kr 6,00	kr 30,00	Unbek	1	2		--	
12:06	1	43	J&B 25ml	Spiritus		kr 2,00	kr 10,00	Unbek	1	2		--	
12:06	1	41	Jameson 25nf	Spiritus		kr 2,00	kr 10,00	Unbek	1	2		--	
12:06	1	41	Jameson 25nf	Spiritus		kr 2,00	kr 10,00	Unbek	1	2		--	
12:06	1	35	Lagavulin 3cl	Spiritus		kr 12,00	kr 60,00	Unbek	1	2		--	
12:06	1	35	Lagavulin 3cl	Spiritus		kr 12,00	kr 60,00	Unbek	1	2		--	

Sums: kr 304,20 kr 1.521,00

Waiter Turnover

Return of waiters from: 9.09.2008 - 9.09.2008

Ti	Co	Pr.-	Name	Sectio	VAT-Grp.	VAT	Price	PriceGrp.	Table-	Dev.N Error
Waiter No. 2			**Unbek**							
10:36	1	35	Lagavulin 3cl	Spiritus		kr 12,00	kr 60,00	1	0	--
10:36	1	35	Lagavulin 3cl	Spiritus		kr 12,00	kr 60,00	1	0	--
10:36	1	41	Jameson 25nf	Spiritus		kr 2,00	kr 10,00	1	0	--
10:36	1	41	Jameson 25nf	Spiritus		kr 2,00	kr 10,00	1	0	--
10:36	1	43	J&B 25ml	Spiritus		kr 2,00	kr 10,00	1	0	--
10:36	1	50	Provenence Whisky 50	Spiritus		kr 6,00	kr 30,00	1	0	--
10:36	1	50	Provenence Whisky 50	Spiritus		kr 6,00	kr 30,00	1	0	--
10:36	1	12	Vodka 3d	Spiritus		kr 7,00	kr 35,00	1	0	--
10:37	1	10	Jack Daniels 3 cl	Spiritus		kr 9,60	kr 48,00	1	0	--
10:37	1	16	Chivas 3cl	Spiritus		kr 9,60	kr 48,00	1	0	--
10:46	1	16	Chivas 3cl	Spiritus		kr 9,60	kr 48,00	1	2	--
10:46	1	10	Jack Daniels 3 cl	Spiritus		kr 9,60	kr 48,00	1	2	--
10:46	1	12	Vodka 3d	Spiritus		kr 7,00	kr 35,00	1	2	--
10:46	1	50	Provenence Whisky 50	Spiritus		kr 6,00	kr 30,00	1	2	--
10:47	1	50	Provenence Whisky 50	Spiritus		kr 6,00	kr 30,00	1	2	--
10:47	1	43	J&B 25ml	Spiritus		kr 2,00	kr 10,00	1	2	--
10:47	1	41	Jameson 25nf	Spiritus		kr 2,00	kr 10,00	1	2	--
10:47	1	41	Jameson 25nf	Spiritus		kr 2,00	kr 10,00	1	2	--
10:47	1	35	Lagavulin 3cl	Spiritus		kr 12,00	kr 60,00	1	2	--
10:47	1	35	Lagavulin 3cl	Spiritus		kr 12,00	kr 60,00	1	2	--
10:50	1	35	Lagavulin 3cl	Spiritus		kr 12,00	kr 60,00	1	2	--
10:50	1	35	Lagavulin 3cl	Spiritus		kr 12,00	kr 60,00	1	2	--
10:50	1	41	Jameson 25nf	Spiritus		kr 2,00	kr 10,00	1	2	--
10:50	1	41	Jameson 25nf	Spiritus		kr 2,00	kr 10,00	1	2	--
10:51	1	43	J&B 25ml	Spiritus		kr 2,00	kr 10,00	1	2	--
10:59	1	43	J&B 25ml	Spiritus		kr 2,00	kr 10,00	1	2	--
10:59	1	41	Jameson 25nf	Spiritus		kr 2,00	kr 10,00	1	2	--
10:59	1	41	Jameson 25nf	Spiritus		kr 2,00	kr 10,00	1	2	--
10:59	1	35	Lagavulin 3cl	Spiritus		kr 12,00	kr 60,00	1	2	--
10:59	1	35	Lagavulin 3cl	Spiritus		kr 12,00	kr 60,00	1	2	--
11:01	1	35	Lagavulin 3cl	Spiritus		kr 12,00	kr 60,00	1	2	--
11:01	1	35	Lagavulin 3cl	Spiritus		kr 12,00	kr 60,00	1	2	--
11:01	1	41	Jameson 25nf	Spiritus		kr 2,00	kr 10,00	1	2	--
11:01	1	41	Jameson 25nf	Spiritus		kr 2,00	kr 10,00	1	2	--
11:02	1	43	J&B 25ml	Spiritus		kr 2,00	kr 10,00	1	2	--
11:51	1	10	Jack Daniels 3 cl	Spiritus		kr 9,60	kr 48,00	1	2	--
12:05	1	16	Chivas 3cl	Spiritus		kr 9,60	kr 48,00	1	2	--
12:05	1	10	Jack Daniels 3 cl	Spiritus		kr 9,60	kr 48,00	1	2	--
12:06	1	12	Vodka 3d	Spiritus		kr 7,00	kr 35,00	1	2	--
12:06	1	50	Provenence Whisky 50	Spiritus		kr 6,00	kr 30,00	1	2	--
12:06	1	50	Provenence Whisky 50	Spiritus		kr 6,00	kr 30,00	1	2	--
12:06	1	43	J&B 25ml	Spiritus		kr 2,00	kr 10,00	1	2	--
12:06	1	41	Jameson 25nf	Spiritus		kr 2,00	kr 10,00	1	2	--
12:06	1	41	Jameson 25nf	Spiritus		kr 2,00	kr 10,00	1	2	--
12:06	1	35	Lagavulin 3cl	Spiritus		kr 12,00	kr 60,00	1	2	--
12:06	1	35	Lagavulin 3cl	Spiritus		kr 12,00	kr 60,00	1	2	--
Prod.Sums:						kr 304,20	kr 1.521,00			
Total Sums:						kr 304,20	kr 1.521,00			

Total Waiter Turnover

Summary waiters-sections from: 9.09.2008 - 9.09.2008 Tap systems

Sectio	Sum PrGrp.1	Sum PrGrp.2	Sum	VAT total	Sum total
No. 2 Unbek					
Spiritus	kr 1.521,00	kr 0,00	kr 0,00	kr 304,20	kr 1.521,00
	kr 1.521,00	**kr 0,00**	**kr 0,00**	**kr 304,20**	**kr 1.521,00**
Total Sums:	**kr 1.521,00**	**kr 0,00**	**kr 0,00**	**kr 304,20**	**kr 1.521,00**

Page   1

Total turnover pr. product

Summary products from: 9.09.2008 - 9.09.2008 Tap systems

Coun	Pr.No.	Name	VAT-grp.	Sum PrGrp.1	Sum PrGrp.2	Sum	VAT total	Sum total
4	10	Jack Daniels 3 cl		kr 192,00	kr 0,00	kr 0,00	kr 38,40	kr 192,00
3	12	Vodka 3cl		kr 105,00	kr 0,00	kr 0,00	kr 21,00	kr 105,00
3	16	Chivas 3cl		kr 144,00	kr 0,00	kr 0,00	kr 28,80	kr 144,00
12	35	Lagavulin 3d		kr 720,00	kr 0,00	kr 0,00	kr 144,00	kr 720,00
12	41	Jameson 25ml		kr 120,00	kr 0,00	kr 0,00	kr 24,00	kr 120,00
6	43	J&B 25ml		kr 60,00	kr 0,00	kr 0,00	kr 12,00	kr 60,00
6	50	Provenence Whisky 50		kr 180,00	kr 0,00	kr 0,00	kr 36,00	kr 180,00

Waiter / Product turnover

Coun	Pr.No.	Name	VAT-grp.	Sum PrGrp.1	Sum PrGrp.2	Sum	VAT total	Sum total
Nr 2		Linhbr						
4	10	Jack Daniels 3 cl		kr 192,00	kr 0,00	kr 0,00	kr 38,40	kr 192,00
3	12	Vodka 3cl		kr 105,00	kr 0,00	kr 0,00	kr 21,00	kr 105,00
3	16	Chivas 3cl		kr 144,00	kr 0,00	kr 0,00	kr 28,80	kr 144,00
12	35	Lagavulin 3d		kr 720,00	kr 0,00	kr 0,00	kr 144,00	kr 720,00
12	41	Jameson 25ml		kr 120,00	kr 0,00	kr 0,00	kr 24,00	kr 120,00
6	43	J&B 25ml		kr 60,00	kr 0,00	kr 0,00	kr 12,00	kr 60,00
6	50	Provenence Whisky 50		kr 180,00	kr 0,00	kr 0,00	kr 36,00	kr 180,00
				kr 1.521,00	**kr 0,00**	**kr 0,00**	**kr 304,20**	**kr 1.521,00**
Total Sums:				**kr 1.521,00**	**kr 0,00**	**kr 0,00**	**kr 304,20**	**kr 1.521,00**

Summary waiter / products from: 9.09.2008 - 9.09.2008 Tap systems

Section Turnover

Return by sections from:		9.09.2008 – 9.09.2008							Tap systems	
Ti	Pr.-	Name	Waiter	VAT-Grp.	VAT	Price	PriceGrp.	Table-	Dev.N	Error
Section Spiritus										
10:36	35	Lagavulin 3cl	Unbek		kr 12,00	kr 60,00	1	0	--	
10:36	35	Lagavulin 3cl	Unbek		kr 12,00	kr 60,00	1	0	--	
10:36	41	Jameson 25ml	Unbek		kr 2,00	kr 10,00	1	0	--	
10:36	41	Jameson 25ml	Unbek		kr 2,00	kr 10,00	1	0	--	
10:36	43	J&B 25ml	Unbek		kr 2,00	kr 10,00	1	0	--	
10:36	50	Provenence Whisky 50	Unbek		kr 6,00	kr 30,00	1	0	--	
10:36	50	Provenence Whisky 50	Unbek		kr 6,00	kr 30,00	1	0	--	
10:36	12	Vodka 3d	Unbek		kr 7,00	kr 35,00	1	0	--	
10:37	10	Jack Daniels 3 d	Unbek		kr 9,60	kr 48,00	1	0	--	
10:37	16	Chivas 3d	Unbek		kr 9,60	kr 48,00	1	0	--	
10:46	16	Chivas 3d	Unbek		kr 9,60	kr 48,00	1	2	--	
10:46	10	Jack Daniels 3 d	Unbek		kr 9,60	kr 48,00	1	2	--	

Waiter Overview

Waiter-	Nam	VAT-grp.	Sum PrGrp.1	Sum PrGrp.2	Sum	VAT total	Sum total
2	Uribek		kr 1.521,00	kr 0,00	kr 0,00	kr 304,20	kr 1.521,00
Total Sums:			**kr 1.521,00**	**kr 0,00**	**kr 0,00**	**kr 0,00**	**kr 1.521,00**

Summary waiters from: 9.09.2008 - 9.09.2008   Tap systems

Section totals

VAT-grp.		VAT PrGrp.1	Sum PrGrp.1	VAT PrGrp.2	Sum PrGrp.2	VAT PrFree	Summe PrFrei	VAT total	Sum total
Spiritus	1	kr 304,20	kr 1.521,00	kr 0,00	kr 0,00	kr 0,00	kr 0,00	kr 304,20	kr 1.521,00
MWStGr	25%	kr 304,20	kr 1.521,00	kr 0,00	kr 0,00	kr 0,00	kr 0,00	kr 304,20	kr 1.521,00
MWStGr	%	kr 0,00	kr 0,00	kr 0,00	kr 0,00	kr 0,00	kr 0,00	kr 0,00	kr 0,00
MWStGr	%	kr 0,00	kr 0,00	kr 0,00	kr 0,00	kr 0,00	kr 0,00	kr 0,00	kr 0,00
MWStGr	%	kr 0,00	kr 0,00	kr 0,00	kr 0,00	kr 0,00	kr 0,00	kr 0,00	kr 0,00
Sums:		kr 304,20	k r	kr 0,00	kr 0,00	kr 0,00	kr 0,00	kr 304,20	kr

Summary sections from: 9.09.2008 – 9.09.2008   Tap systems

Connecting a Printer:

Please ensure to have a cable connection as described here:

TAP 2500 — DB9M

PRINTER — DB25M
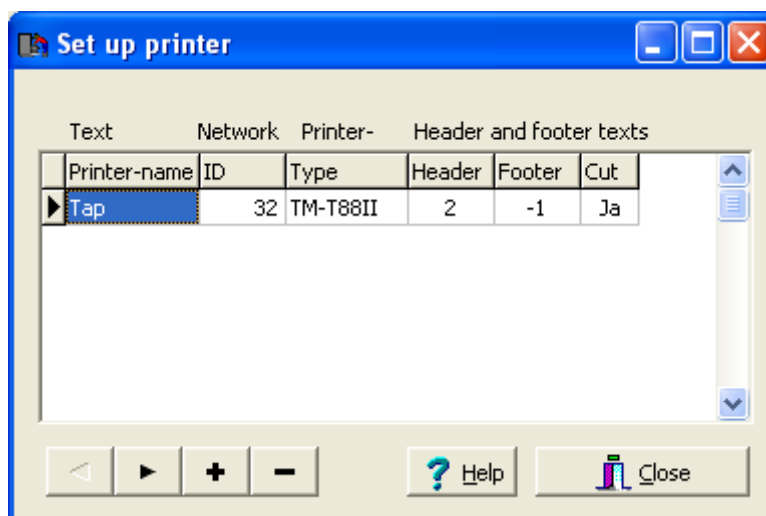
2	3
5	7
7	20
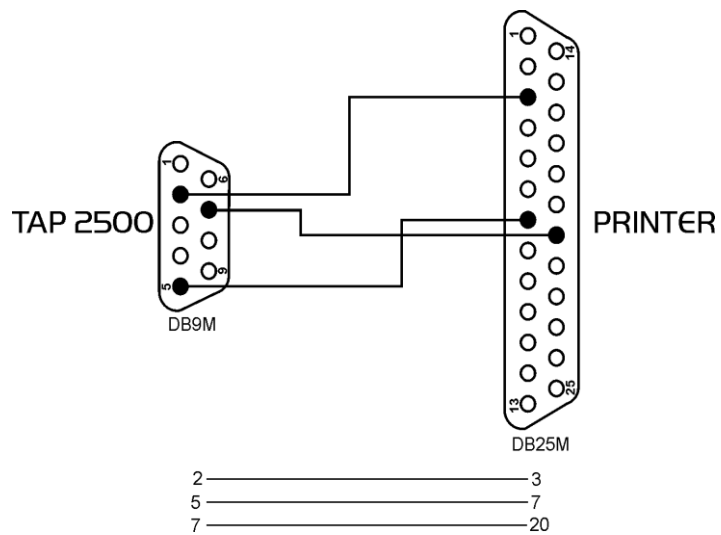
Click **"file"**.
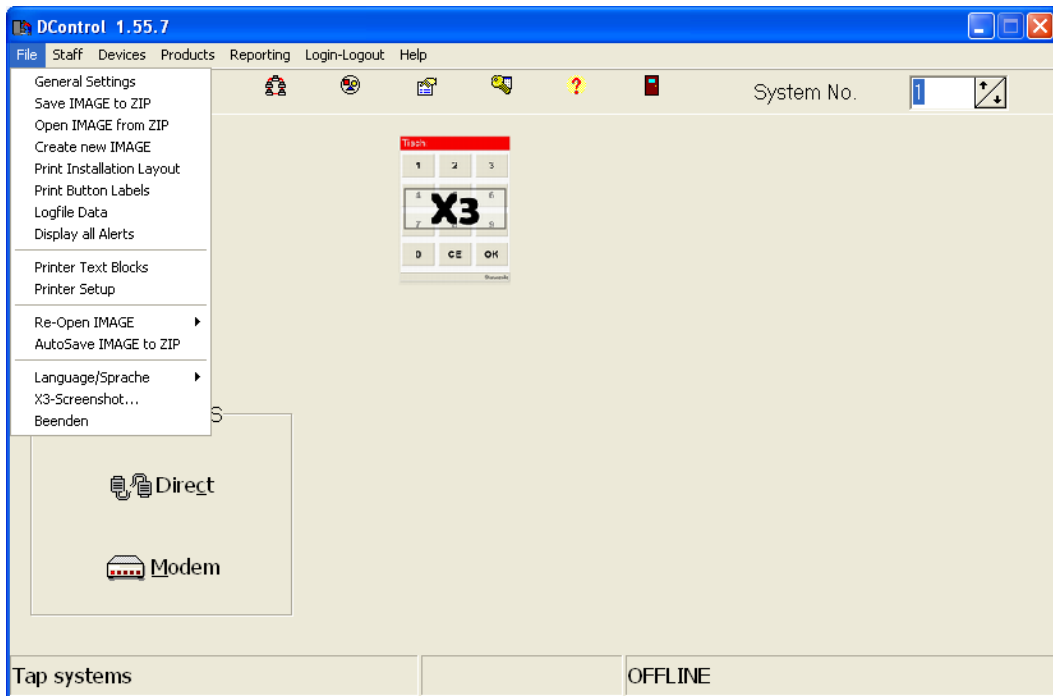
Click "**Printer Setup**".

Enter a printer name under″ **Printer-name**″.

In the ″**ID**″ box, enter ″32″, being the network number of TAP2500, which you establish connection to.

TAP Systems recommends to use any type of receipt printer. The example below describes a printer by "Orient" (Type BTC-2002CP11), for which the number TM-**T8811** is entered into the box under ″**Type**″.

Under ″**Kopf**″ we enter **2** as an example, indicating that the text of the **header** on a printout has box no.2 as address, when a text is entered in ″**Printer text**″.

Under ″**Fuss**″ we enter **1** as an example, indicating that the text of the footer has box no **1**, when a text is entered for the **footer** of the printout.
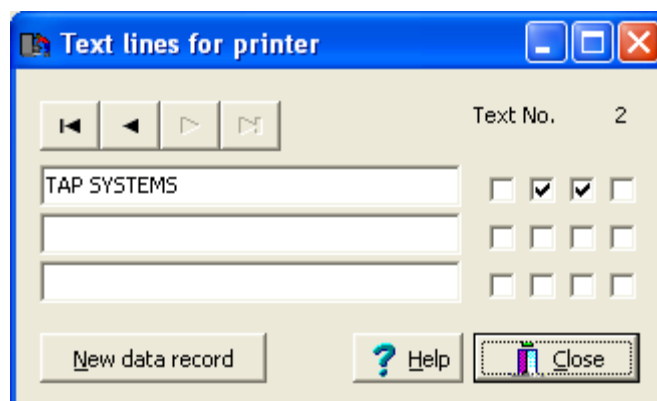
In ″**Schneiden**″ we enter **YES**, if the ticket/printout is to be cut and **NO** if it is to remain attached to the printer.

Click Close

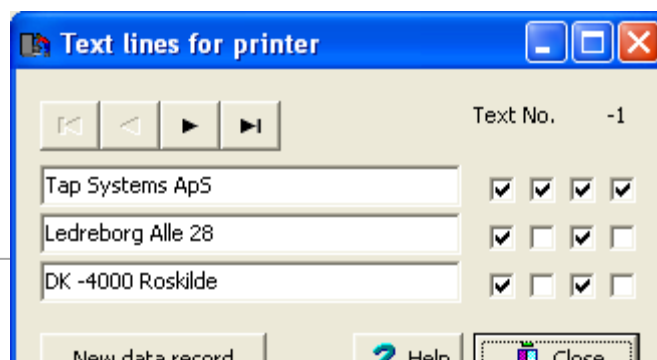Now the printer texts can be written

Click ″**file**″.

Click ″**Printer text**″.

This shows the second box (Kopf) in which the header text is written.
By ticking the boxes on the right, text sizes are set.
Write a text and click on an arrow to move to window/box no. 1.

Type the Header Text for the ticket / printout and remember to adjust printing sizes as required.

Click   **Close**

Finally, set the printer to Com-port 1.

Click ″**X3**″.

Scroll down to ″**COM 1**″ . Click the arrow and select ″**Drucker**″ (German for ″**Printer**″) by clicking it.
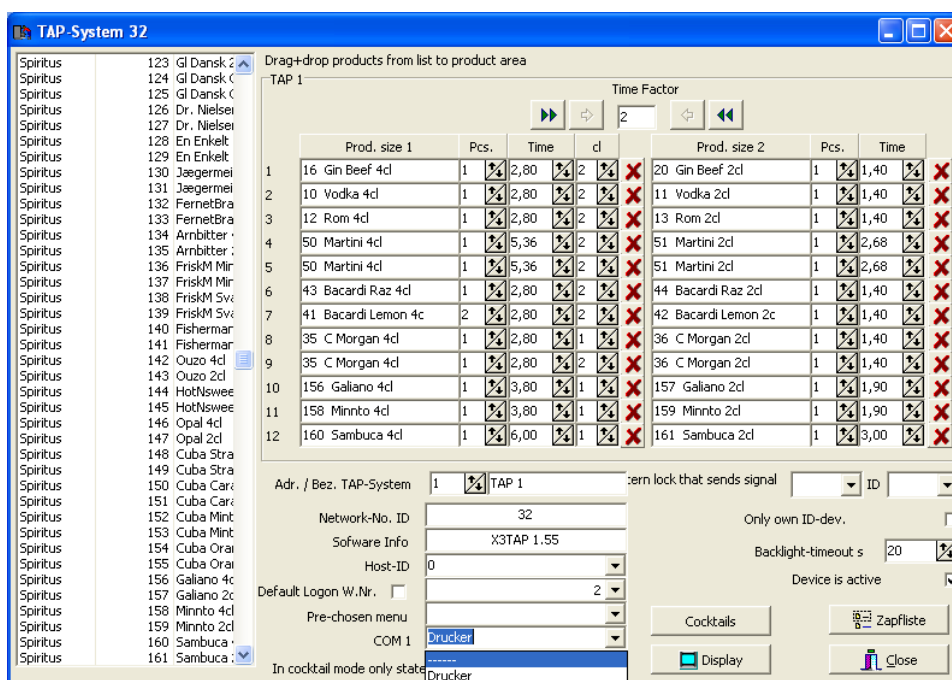
Click Close

Your printer is set up.

Connecting to POS:

Please first make sure to use the correct type of cable (depending on POS brand & protocol used).

As a rule, the same cable that connects to a PC can be used.

Click ″**X3**″.

Scroll down to COM 1 and click the arrow.

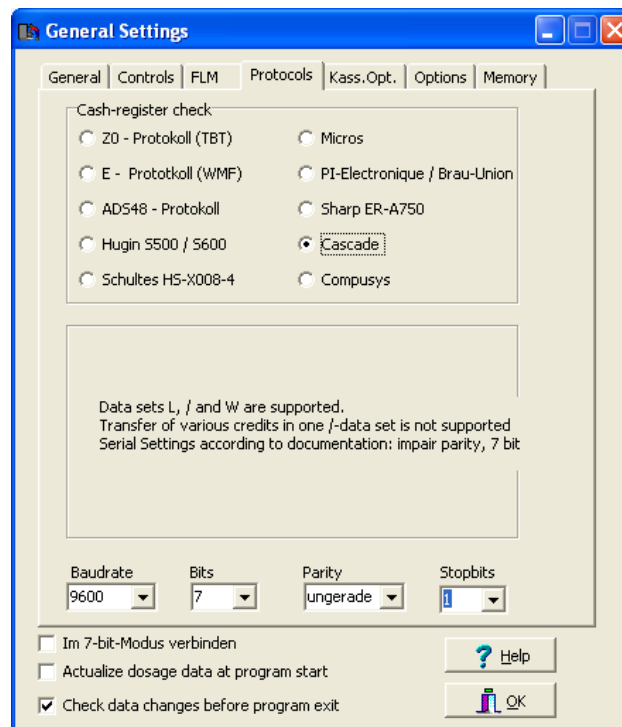Select for example Cascade by clicking it.

Click Close

You have now selected a COM port.

Click ″**file**″.

Click ″**General settings**″

Click the ″**Protocol label**″.

Select ″**Cascade**″.

All values in ″Baudrate″ – ″Bits″ – ″Parity″ & ″Stopbits″ are to be set by the POS partner who installs the cash register..

Click OK

Tap 2500 now connects to POS.

A more specific set up guide for Vectron has been attached to this manual. (next 5 pages).

If you choose to connect TAP2500 to a POS device, this document is to help you with settings.

First, make sure to set DIP-Switch number 8 in TAP2500 to "ON". Restart the unit so the setting will be recognized.

If any other dispensing equipment is connected on the same "loop", on ONE of the devices the DIP-Switch no.8 has to be "ON" and thus function as a Router (also called Multiplexer) for the other dispensing devices.

Settings for VECTRON:

On the POS, enter/start protocol No. 10.

In the dialog box in TAP2500 Software / File /General Settings / protocols
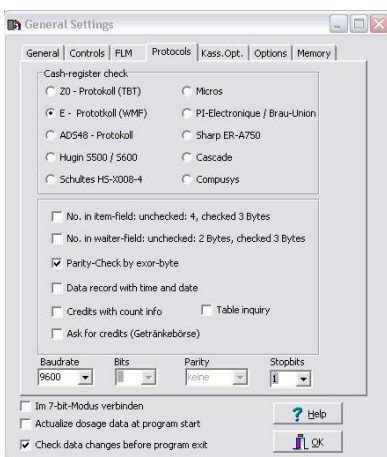
select E-protocol. (fig.1)

fig.1

It is advised to activate the "check Parity" function. Other than that, default settings are valid.
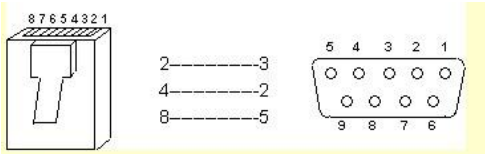
Fig. 2

IMPORTANT

Several connection cables may exist.

The configuration shown ought to result in flawless connections.

The E-Protocol (WMF-protocol)

In this mode, the dispensing equipment connected to POS, simulates the ISB-Box. (WMF-product)

So it operates as a concentrator for all dispensing units in the CAN-Bus loop. The setting options of the ISB-Box are replaced by check-boxes.

If "Table request" is activated, the dispensing device will wait for a confirmation by the E-POS after entering the table number!

The following commands are supported:

If not described differently, the following settings apply

Waiter-Id with 3 Byte

No Parity check

Record without time or date

Credit quantity activated

Table request not activated

Product Line: TAP-M200

Version: TAP-01.01

Rewritten 2008-05-30

Table of Contents

1. Physical interface

Connector: Male DB-9 (sub D)

                    Pin3 = RxD

                    Pin2 = TxD

                    Pin5 = GND

Transmission:	RS232 – Serial asynchronous

Data Format:	8 data bits(ASCII codes), no parity, 1 stop bit, 9600,4800 or 2400 bauds

2 Dataflow

2.1 Data Communication from POS to TAP2500

2.1.1 Polling TAP2500 for Data

Data Length	**1 character (ASCII)**
Character	**E**
Explanation	With this dataset the POS polls TAP2500 in order to receive new information

2.1.2 Error in Received Data

Data Length	**1 character (ASCII)**
Data Set **F**	
Explanation	The data received is in error

2.1.3 Data Properly Received

Data Length	**1 character (ASCII)**
Data Set	**R**
Explanation	With this dataset the POS acknowledges proper receipt of data

2.1.4 Debit Operator Release

Data Length	**4 character (ASCII)**
Data Set	**Axxx**
Explanation	Whereby xxx indicates the operator number. Normally every time the POS terminal is powered on, the POS application will transmit one data set for all **DEBIT** operator (as programmed in the POS application) numbers to TAP2500, after it finishes locking all operators).
Example:	5 operators are defined in the POS database. After the system unit is powered up the following data sequence is transmitted to TAP2500

POS		**TAP2500**
A001	☐	
	☐	R
A002	☐	
	☐	R
A003	☐	
	☐	R
A004	☐	
	☐	R
A005	☐	
	☐	R

2.1.5 General Operator Lock

Data Length	**4 character (ASCII)**
Data Set	**Bxxx**
Explanation	Whereby xxx indicates the operator number. Normally every time the POS terminal is powered on, the POS application will transmit this dataset lock all available operators on the TAP2500 side.
Example:	

POS		**TAP2500**
B001	☐	
	☐	R
B002	☐	
	☐	R
B003	☐	
	☐	R

B063 ☐

☐   R

2.1.6 Reset all Credits

Data Length	**4 character (ASCII)**
Data Set	**C000**
Explanation	Will clear all outstanding credits of all operators and reset the daily report on TAP2500

Example:

POS	TAP2500
C000	☐
	☐ R

2.1.7 Credits

2.1.7.1 Menu Item Credit

Data Length	**5 character (ASCII)**
Data Set	**Kxxxx**
Explanation	Whereby xxxx indicates the menu item number. Every time a TAP credit operator rings a TAP2500 defined menu item this dataset will be transmitted for every menu item to the TAP2500 to allow pouring of the corresponding item on the TAP2500 system.

Example: Menu Item 1 is posted on the POS

POS	TAP2500
K0001	☐
	☐ R

2.1.7.2 Multi Menu Item Credit

Data Length	**9 character (ASCII)**
Data Set	**Kxxxxyyyy**
Explanation	Whereby xxxx indicates the number of menu items and yyyy the menu item number. Every time an operator rings two or more of the same TAP2500 defined menu item this dataset will be transmitted for every menu item to TAP2500 to allow pouring of the corresponding item on the TAP2500 system.

Example: Menu Item 1 is posted 5 times on the POS

POS	TAP2500
K00050001	☐
	☐ R

2.1.7.3 Void Menu Item Credit

Data Length	**5 character (ASCII)**
Data Set	**Sxxxx**
Explanation	Whereby xxxx indicates the menu item number. In case a rung up menu item is voided on the POS this dataset is send to TAP2500.

Example: Menu Item 1 is voided on the POS

POS	TAP2500
S0001	☐
	☐ R

2.1.7.4 Void Multi Menu Item Credit

Data Length	**9 character (ASCII)**
Data Set	**Sxxxxyyyy**
Explanation	Whereby xxxx indicates the number of menu items and yyyy the menu item. In case a two or more of the same rung up menu item is voided on the POS this dataset is send to TAP2500.

Example: Menu Item 1 is voided 5 times

POS	TAP2500
S00050001	☐
	☐ R

2.1.7.5 Menu Item Credit by Operator

Data Length	**8 character (ASCII)**
Data Set	**Qxxxyyyy**
Explanation	Whereby the xxx indicates the operator number and yyyy the menu item number.

Example: Operator 1 posts Menu Item 2 on the POS

POS	**TAP2500**
Q0010002	☐
	☐ R

2.1.7.6 Multi Menu Item Credit by Operator

Data Length	**12 character (ASCII)**
Data Set	**Qxxxxyyyzzzz**
Explanation	Whereby the xxxx indicates the quantity of menu items, yyy the operator number and zzzz the menu item number.

Example: Operator 1 posts 5 times Menu Item 2 on the POS

POS	**TAP2500**
Q00050010002 ☐	
	☐ R

2.1.7.7 VOID Menu Item Credit by Operator

Data Length	**8 character (ASCII)**
Data Set	**qxxxyyyy**
Explanation	Whereby the xxx indicates the operator number and yyyy the menu item number.

Example: Operator 1 voids Menu Item 2 on the POS

POS	**TAP2500**
q0010002	☐
	☐ R

2.1.7.8 VOID Multi Menu Item Credit by Operator

Data Length	**12 character (ASCII)**
Data Set	**qxxxxyyyzzzz**
Explanation	Whereby the xxxx indicates the quantity of menu items, yyy the operator number and zzzz the menu item number.

Example: Operator 1 voids 5 times Menu Item 2 on the POS

POS	**TAP2500**
q00050010002 ☐	
	☐ R

2.2 Data Communication from TAP2500 to POS

2.2.1 Debits

Data Length	**9 character (ASCII)**
Data Set	**xxyyyyzzz**
Explanation	Whereby the xx indicates the operator number, yyyy the menu item number and zzz the table number. **Please note that debit data sets are always read twice.**

Example: Operator 1 pours menu item 2 on TAP2500 for table 5

POS	**TAP2500**
E	☐
	☐ 010002005
E	☐
	☐ 010002005
R	☐

2.2.2 No Data to Transfer

Data Length	**9 character (ASCII)**

Data Set	**000000000**	
Explanation	If no data set is ready for transmission from TAP2500, this dataset will be send after a request for data transmission ("E" request from POS).	

Example:

POS		TAP2500
E	☐	
	☐	000000000
R	☐	

2.2.3 VOID reject

Data Length	**1 character (ASCII)**
Data Set	**f**
Explanation	This dataset is returned to the POS in case a void can not be validated (i.e. the item to be voided has already been poured)

Example: Operator 1 tries to void item 0005

POS		TAP2500
q0010005	☐	
	☐	f

2.2.4 VOID not possible

Data Length	**1-n character(s) (ASCII)**
Data Set **t**	
Explanation	This dataset is returned to the POS in case void is not possible.

Example: Operator 1 tries to void item 0005

POS		TAP2500
q0010005	☐	
	☐	t

Operator 1 tries to void two items 0005

POS		TAP2500
q00020010005	☐	
	☐	tt

2.2.5 Error in Received Data

Data Length	**1 character (ASCII)**
Data Set	**F**
Explanation	This dataset is returned to the POS in case TAP2500 receives a non defined dataset from the POS. Normally the POS will send this message three times in total.

Example:

POS		TAP2500
z11z0010005	☐	
	☐	F
z11z0010005	☐	
	☐	F
z11z0010005	☐	
	☐	F

2.2.6 Data Properly Received

Data Length	**1 character (ASCII)**
Data Set	**R**
Explanation	With this dataset the BCS acknowledges proper receipt of data

2.2.7 Multiple "R" and "f" after VOID multiple menu item credit

Data Length	**2-n characters (ASCII)**

Data Set	**Variable: RRRff**
Explanation	In case more voids are entered on the POS than items available in TAP2500, this will return as many "R" values in the dataset as were
	successfully voided and as many "f" values for unsuccessful voids (i.e. items not available)

Example: 3 menu items 0005 is available. The operator voids four menu items 5.

POS	**TAP2500**
S00040005	☐
	☐ RRRf

3 Notes

Please note that the table number from TAP2500 is fixed to a pre defined value between 0 and 99. Not all POS's accept table number 0 (i. e. use 1 to 99).

Operater number from TAP2500 is fixed to a pre defined value, if a waiter key is not used.

Display:

To change the texts and layouts on the touch screen of TAP2500 enter the ″Display″ menu.

Click ″**X3**″.

Click D**isplay**
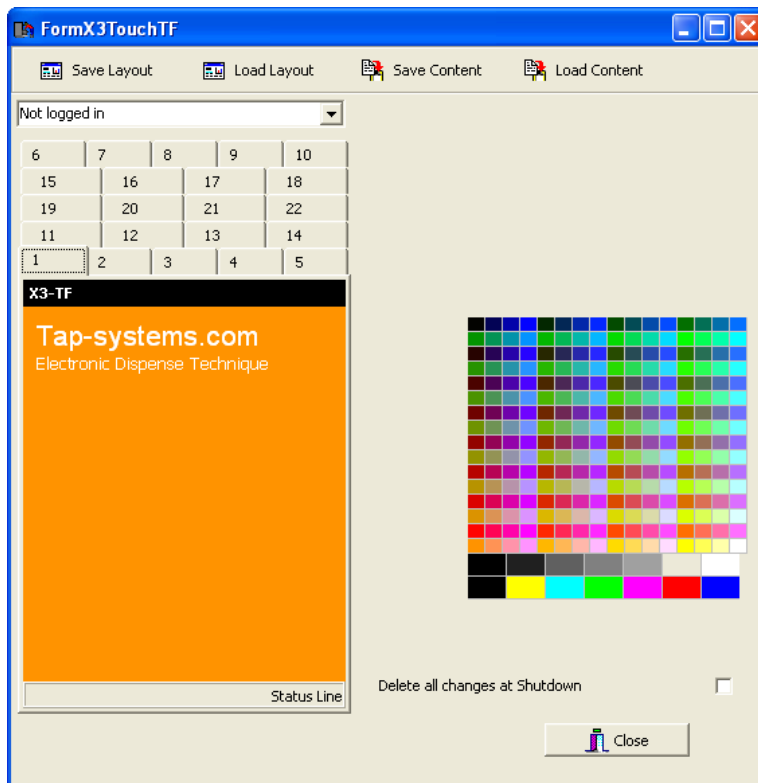
Use this window to edit texts and layouts of the display.

Mark the area with your curser to pick a color from the choice panel on the right and double click texts to translate them. (A translation box appears when double clicking text areas).

All numbered pages can be marked and edited.

Please load and/or save changes in both content and design using the four buttons on the top of this page.
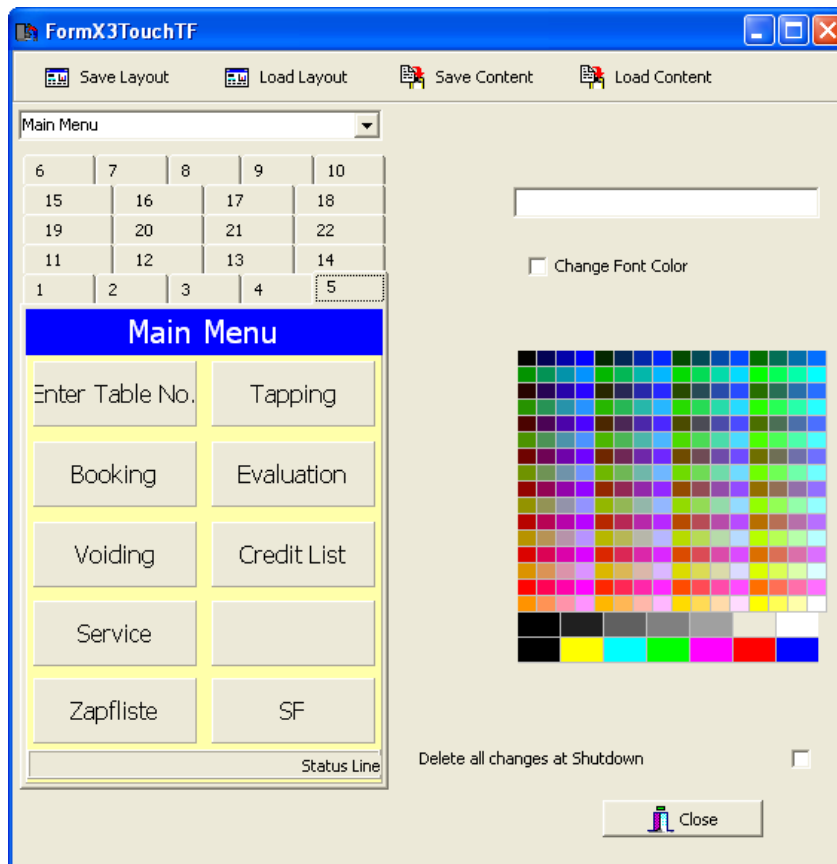
Open e.g. menu page 5

Renaming buttons and editing layout

Choose for example: ″Table Number″

In the textbox to the right you can enter a new text.

As long as "Table Number" is active, you can change colors of texts as well as the entire button by pacing your curser in them and choose a new color from the choice pad to the right.

All active areas like frames, lines and buttons can be changed as described above.

After editing, plse ″save content″ and ″save layout″.

You can also ″load″ Layout as well as Content the were previously saved in any accessible location

Click Schliessen to exit.

Waiter Keys:

The first time TAP2500 is used, a waiter key is inserted in the slot on the front of the unit. On the bottom of the screen, a code of digits is displayed, which is to be used by the system administrator. Please note this code as it will be needed later.

If other users / waiters are to be working with keys to log on to the system, mark the keys pr user, insert them into the slot and note all codes for later registration.

Click ″**Staff**″.

A window appears which is used to allocate individual authorizations for all keys in use.
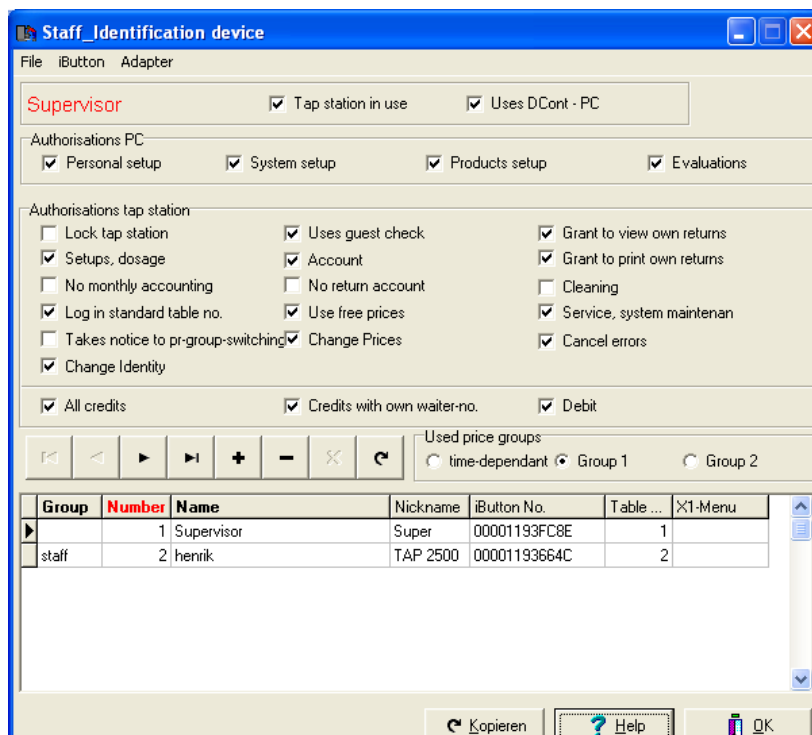
As No. 1, set the Administrator of the system, now registered as ″Supervisor″ with the abbreviation "Super″ and waiter key no. **00001193FC8E.** The administrator ought to have Master Authorization, ticking ALL boxes in this window.

In the same way, authorization is given to all staff members who are to operate the system with a waiter key.

If the administrator is the only person to have access with a key, this is the only authorization (setting) required.

If you wish to operate TAP2500 without a waiter key inserted in the slot, you can disable this function by Clicking **"X3"** and tick box ″**Default Logon W.Nr.**″.

Click Close

Connect Tap 2520 to Tap 2500:

Use a 8 core modular cable (below) for this connection.

Connect an 8 pole modular connector with a 124 Ω resistor.
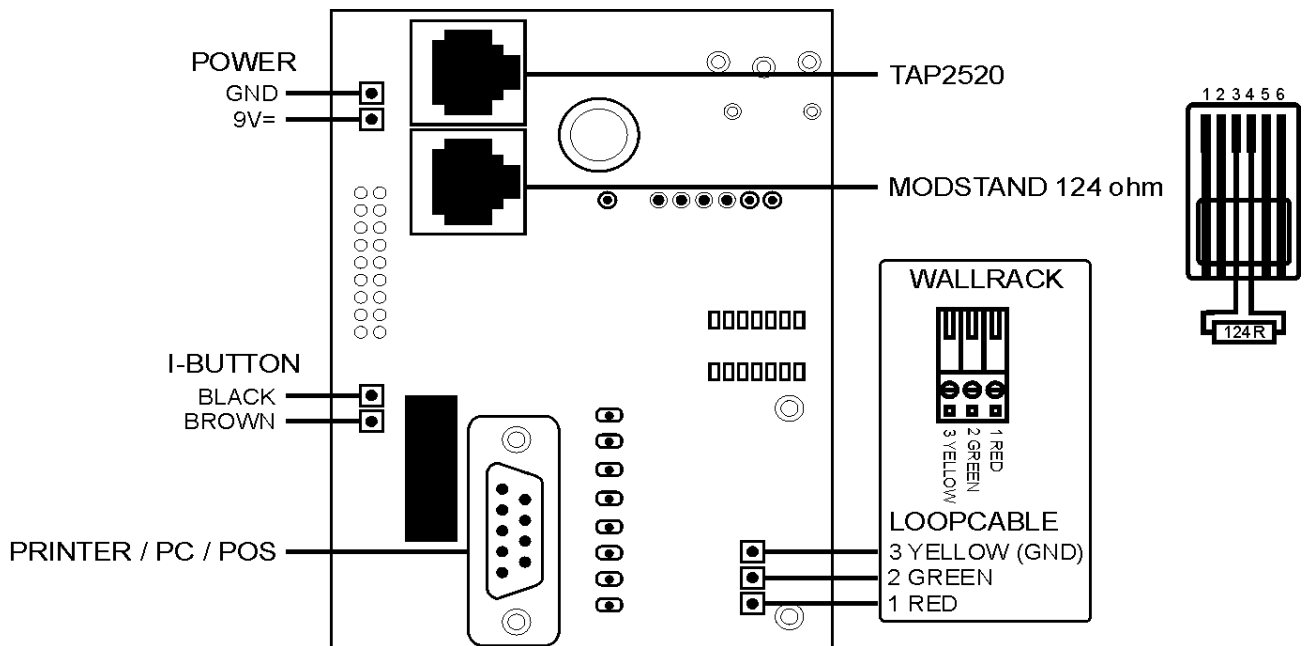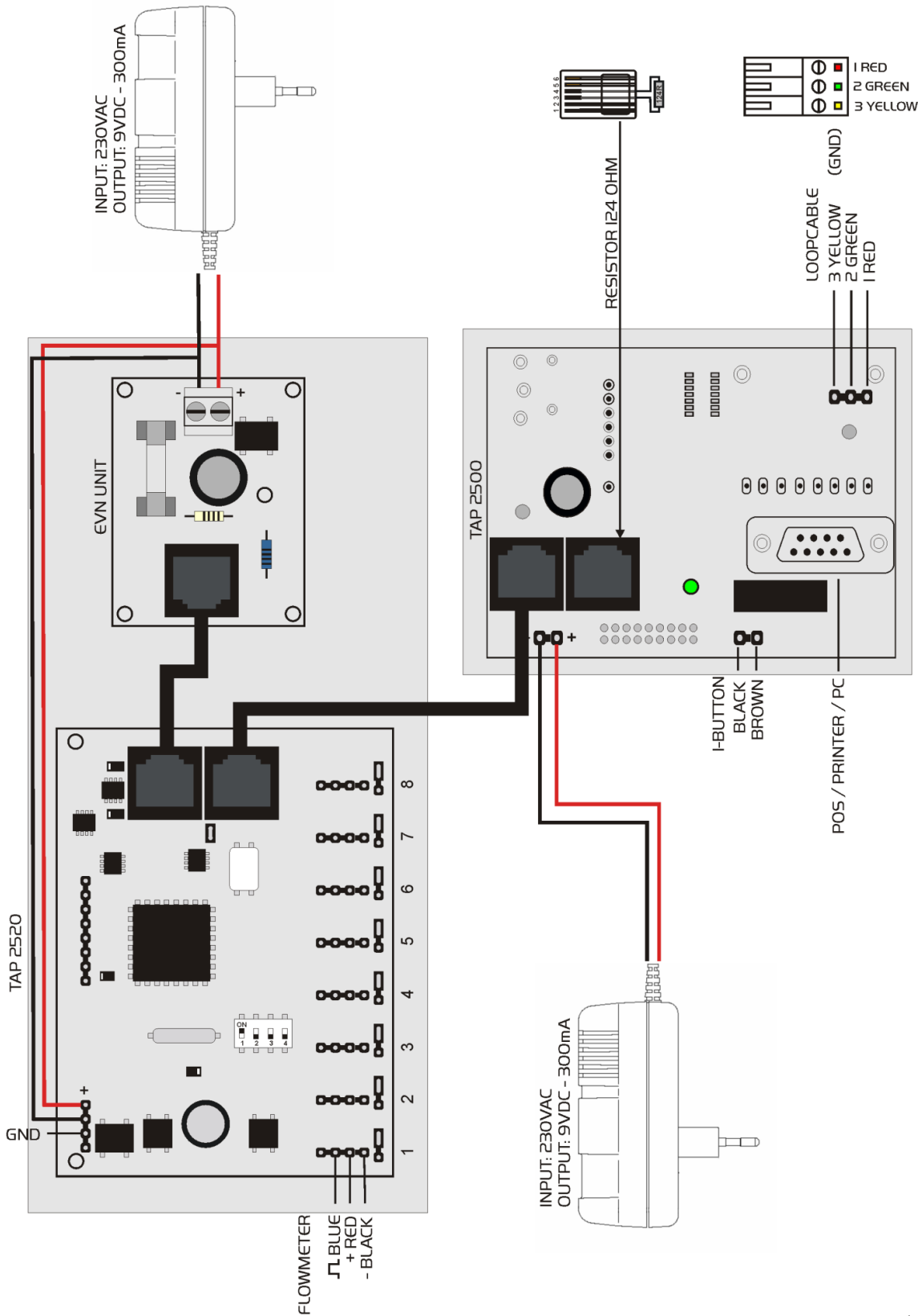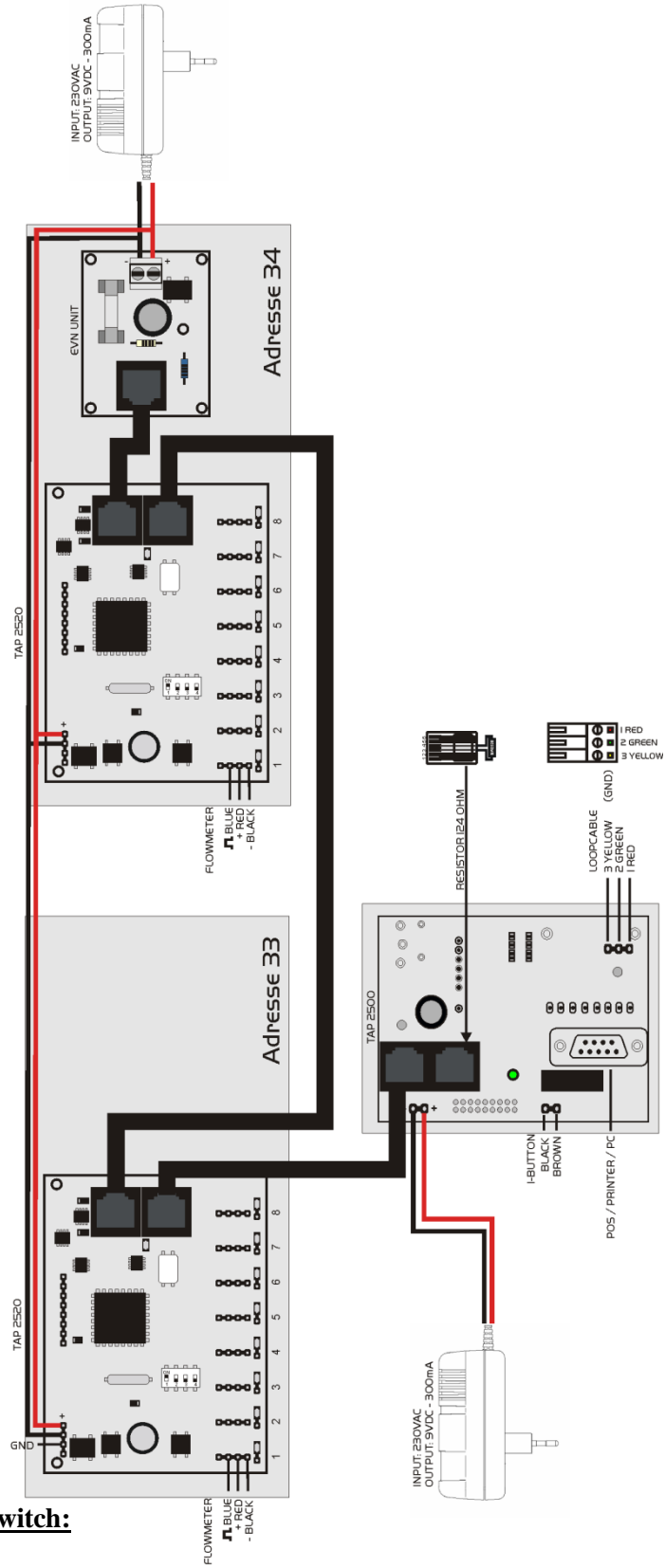The resistor is to be placed between pin 3 and pin 4.

Diagram of Tap 2520 - Tap 2500:

Multiple Tap 2520 units connected:
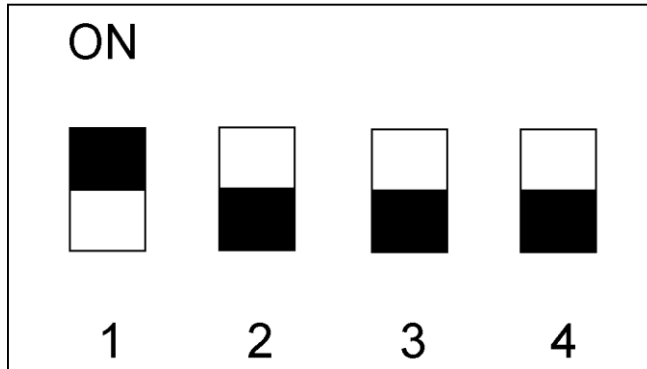

Adresses on the DIP switch:

On each Tap 2520 the address is to be set first. The first unit gets no. 33. The next gets 34 and so forth – until all units have been given an address.

DIP Switches are used to give these addresses – as shown below:
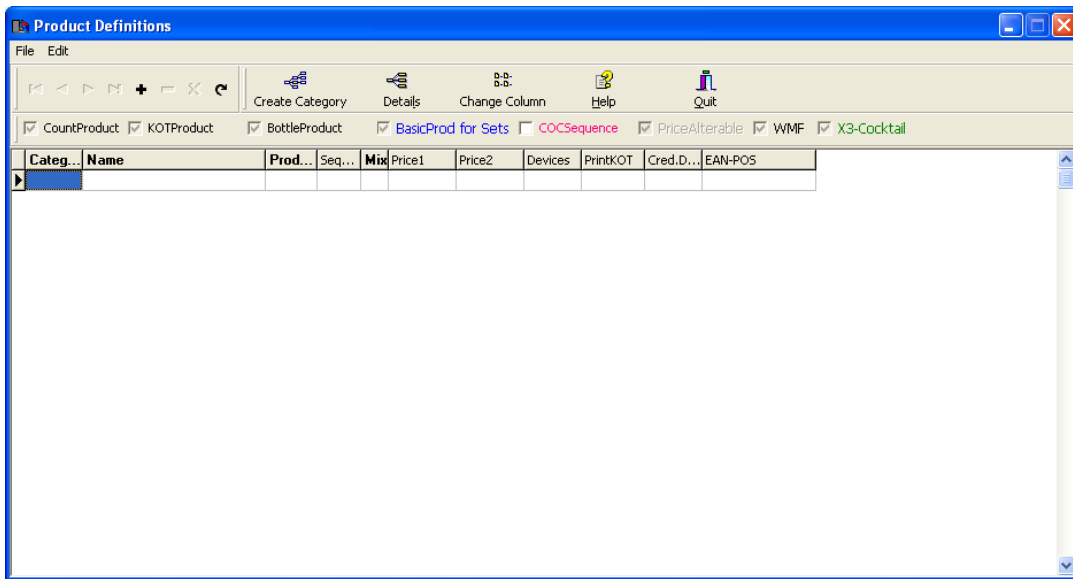
DIP SWITCH

Address 33

Address	DIP 1	DIP 2	DIP 3	DIP 4
33	ON	OFF	OFF	OFF
34	OFF	ON	OFF	OFF
35	ON	ON	OFF	OFF
36	OFF	OFF	ON	OFF
37	ON	OFF	ON	OFF
38	OFF	ON	ON	OFF
39	ON	ON	ON	OFF
40	OFF	OFF	OFF	ON
41	ON	OFF	OFF	ON
42	OFF	ON	OFF	ON
43	ON	ON	OFF	ON
44	OFF	OFF	ON	ON
45	ON	OFF	ON	ON
46	OFF	ON	ON	ON
47	ON	ON	ON	ON

Creating a product list for Tap 2520

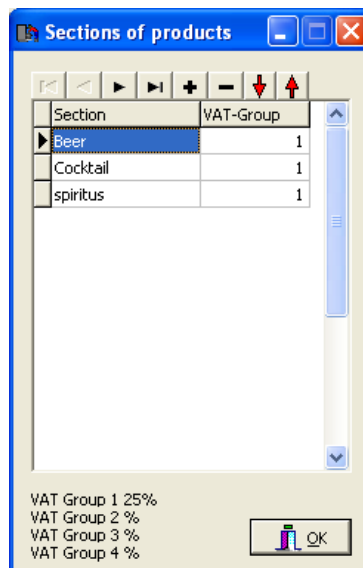Open the Tap 2500 software.

Click "**Products**"

Click "**Product list**"

Create a category first.

Create Category

Name the category "Draught Beer" (Or other free-flow measured products)

Click. Done

Click the empty field under "**Category**" and enter "**Draught Beer**"
Click the empty field under "**Name**" and write **the product** .
Click the empty field under "**Prod**" and write **500.**
Click the empty field under "**Price 1**" and write the **price.**
Click the empty field under "**Price 2**" and write the **price.**
Click **"+"** on the toolbar and a new line appears.

Click the empty field under "**Name**" and write **the product** .
Click the empty field under "**Prod**" and write **501.**
Click the empty field under "**Price 1**" and write the **price.**
Click the empty field under "**Price 2**" and write the **price.**
Continue like this until all draught products have been entered.
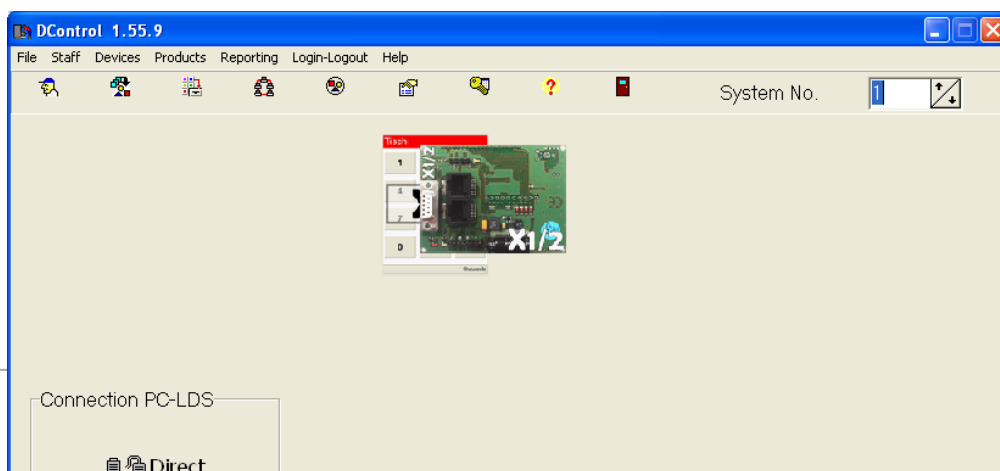

Placing products in Tap 2520:

Click the green "Beer card X1/2".
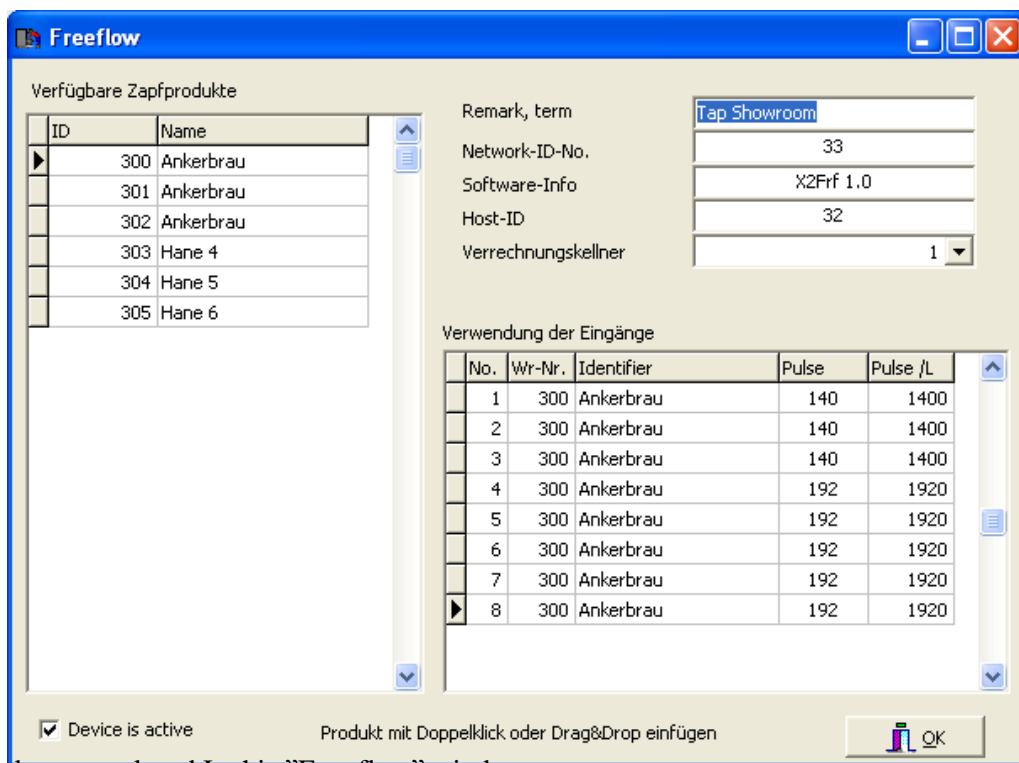
All beer products are placed In this "Free flow" window .

Drag and drop products of up to 8 beer lines.

In the Imp / L box – the pulse pr. Liter value of the flow meters is entered. (Tap flow = **1600** Puls pr. liter.)

In the Impulse box, select accuracy of registration of pulses.. Rightclick the box and select 0,1 L .

The digit **160** appears. The system is set to count deciliters.

In "Name ", describe the location of the beer counter, (f.eks. Big Bar or Little Bar).

In "Network- Nr. ID" you can see the address of the beer card (as set with the DIP Switches).

In "Software-Info" you can read the software version of the beer card.

In "Kellner" you can see which waiter is operating the beer card.

Close this window.
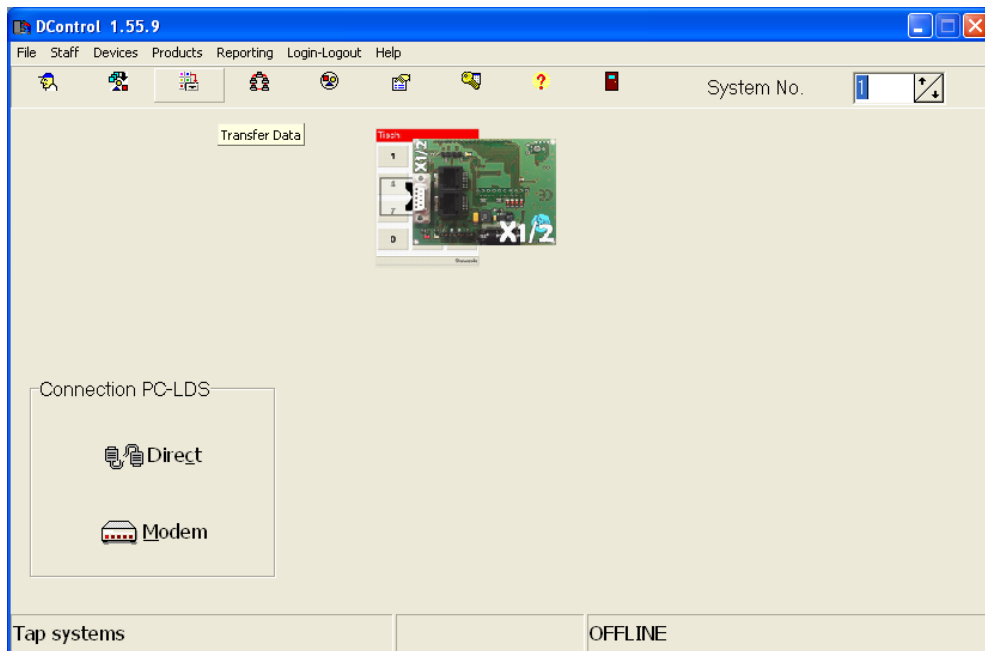
Click Transfer Data
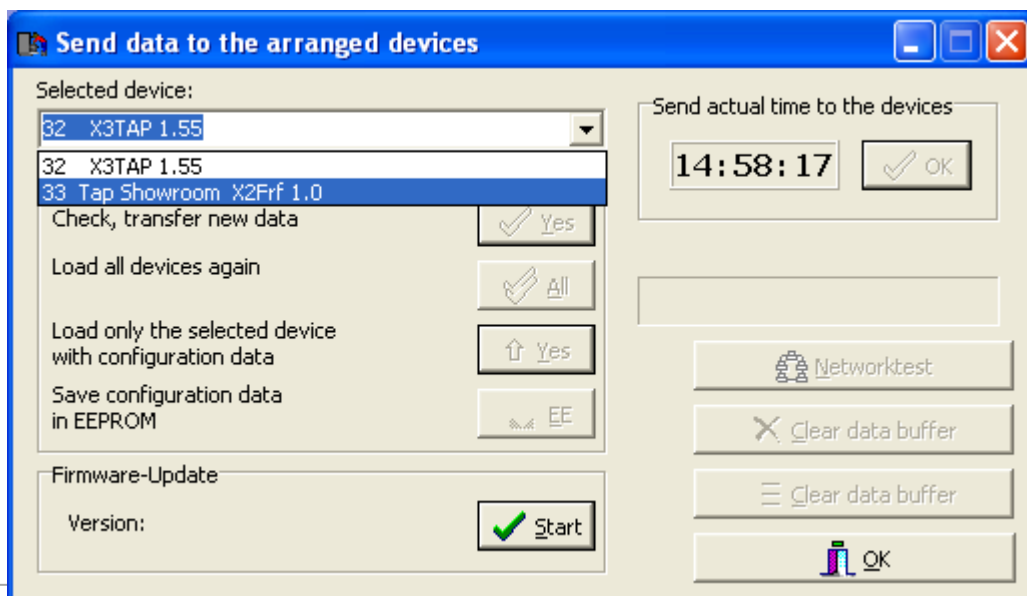
Select a device and transfer new data to Tap 2500 every time you create, add r change anything in Tap 2520 units.
Click OK after transfers.
Tap 2520 units are now ready for use.

Tap 2500 Touch screen diagram.

Table Number

Table number

1	2	3
4	5	6
7	8	9
0	.	CE
OK		

Products

Service

Service

Clear Errors	Setup Dosages
Cleaning	Edit Prices
Reset	Save Configuration
Clear Data Buffer	Touch cal.
Edit Keys	In- and Outputs
Network-Info	Enter Credits
	Status Line

Clear Errors

Cleaning

Reset

Restart
| Unit | System |

Clear data buffer

Data buffer being deleted
| No | Yes |
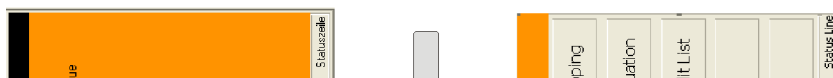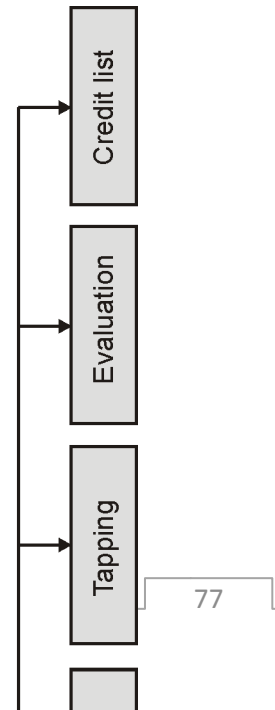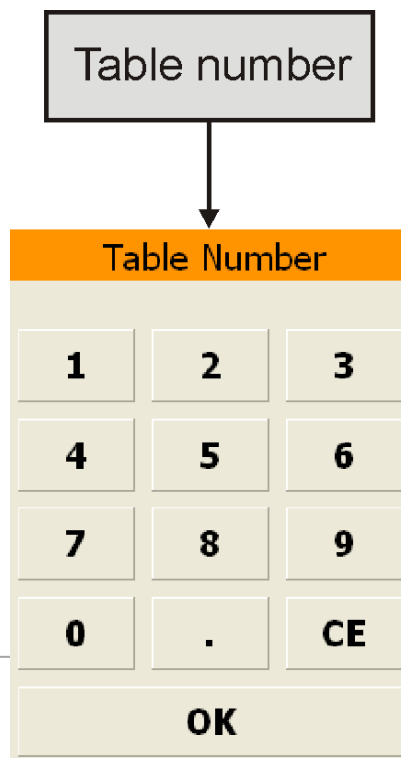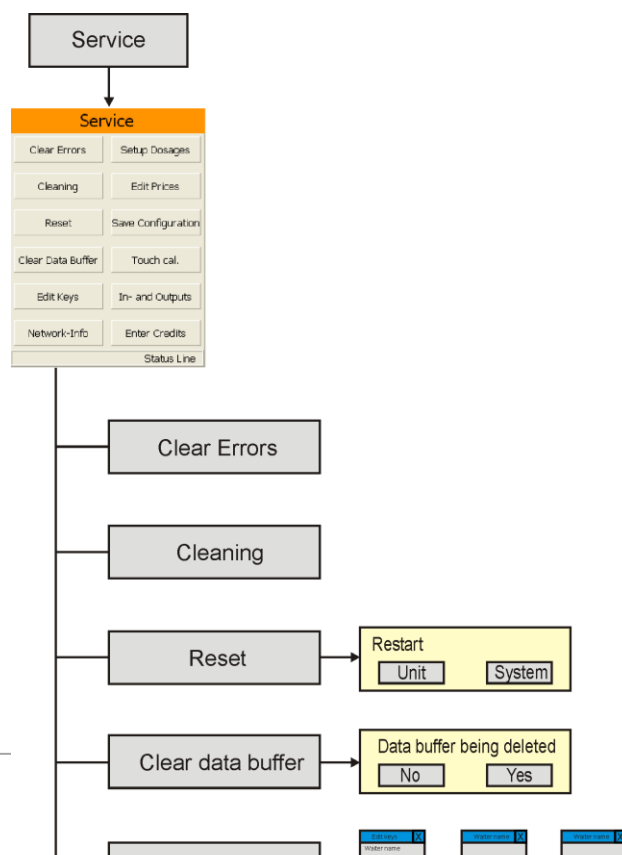
<u>Dispensing</u>
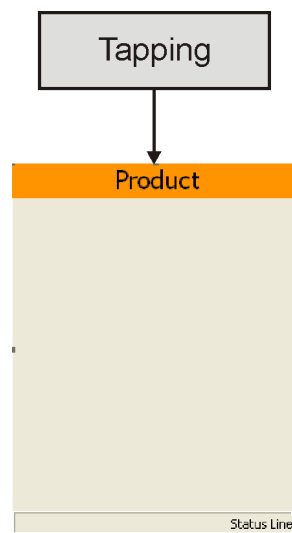
Evaluation
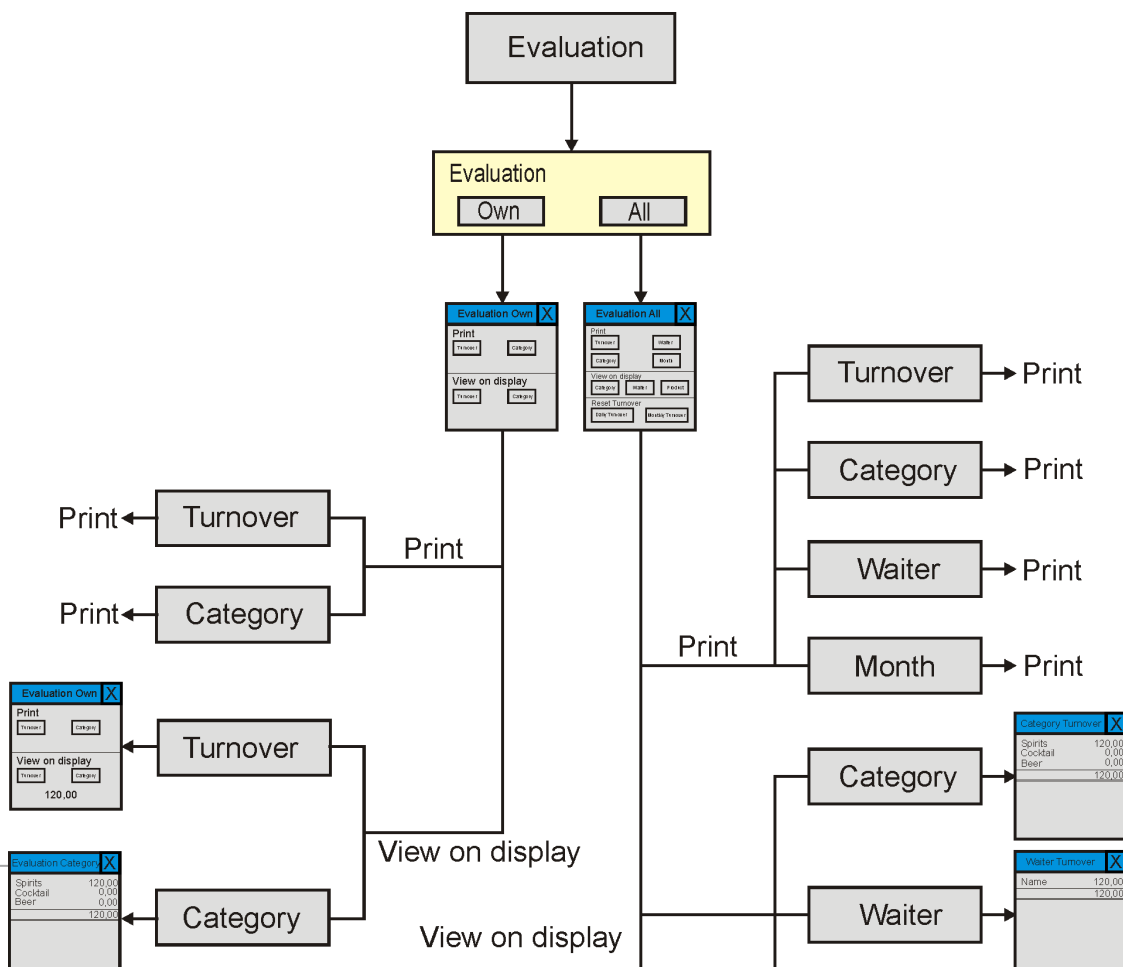
Credit List
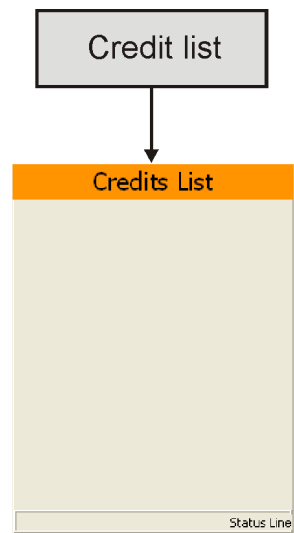
Recommended sizes in cl.

PRODUKT	2cl	2,5cl	3cl	4cl	5cl	6cl
ABSOLUT MANDARIN	1,50	1,87	2,25	3,00	3,75	4,50
ARNBITTER	1,70	2,14	2,55	3,40	4,25	5,10
BACARDI	1,50	1,87	2,25	3,00	3,75	4,50
BACARDI 8 YEAR	1,50	1,87	2,25	3,00	3,75	4,50
BACARDI GOLDEN	1,50	1,87	2,25	3,00	3,75	4,50
BACARDI LEMON	1,50	1,87	2,25	3,00	3,75	4,50
BACARDI RAZZ	1,50	1,87	2,25	3,00	3,75	4,50
BAILEY	3,15	3,94	4,72	6,30	7,88	9,44
BALLENTINES	1,50	1,87	2,25	3,00	3,75	4,50
BEEFEATER	1,50	1,87	2,25	3,00	3,75	4,50
BLUE CURACAO	1,65	2,06	2,47	3,30	4,12	4,94
BLÅ AALBORG	1,50	1,87	2,25	3,00	3,75	4,50
BOLS BANAN	1,60	2,00	2,40	3,20	4,00	4,80
BOLS BLUE	1,60	2,00	2,40	3,20	4,00	4,80
BOLS COCOS	1,60	2,00	2,40	3,20	4,00	4,80
BOLS GIN	1,50	1,87	2,25	3,00	3,75	4,50
BOMBAY GIN	1,50	1,87	2,25	3,00	3,75	4,50
BOONEKAMP	1,70	2,14	2,55	3,40	4,25	5,10
CACHACA	1,50	1,87	2,25	3,00	3,75	4,50
CALVADOS	1,50	1,87	2,25	3,00	3,75	4,50
CAMPARI	1,70	2,14	2,55	3,40	4,25	5,10
CANADIAN CLUB	1,50	1,87	2,25	3,00	3,75	4,50
CAPTAIN MORGAN	1,50	1,87	2,25	3,00	3,75	4,50
CHIVAS REGAL	1,50	1,87	2,25	3,00	3,75	4,50
COINTREAU	1,70	2,14	2,55	3,40	4,25	5,10
COURVOISIER	1,50	1,87	2,25	3,00	3,75	4,50
CREME DE BANANAS	1,65	2,06	2,47	3,30	4,12	4,94
CUBA APRICOT	1,70	2,14	2,55	3,40	4,25	5,10
CUBA CARAMEL	2,50	3,13	3,75	5,00	6,25	7,50
CUBA CURRANT	1,50	1,87	2,25	3,00	3,75	4,50
CUBA MINT	1,70	2,14	2,55	3,40	4,25	5,10
CUBA ORANGE	1,70	2,14	2,55	3,40	4,25	5,10

Recommended sizes in cl.

PRODUKT	2cl	2,5cl	3cl	4cl	5cl	6cl
GORDONS GIN	1,50	1,87	2,25	3,00	3,75	4,50
GRAND MARNIER	1,70	2,14	2,55	3,40	4,25	5,10
GRENADINE	2,00	2,50	3,00	4,00	5,00	6,00
GREY SHOT	1,70	2,14	2,55	3,40	4,25	5,10
HAVANA CLUB	1,50	1,87	2,25	3,00	3,75	4,50
HENNESSY	1,50	1,87	2,25	3,00	3,75	4,50
J & B	1,50	1,87	2,25	3,00	3,75	4,50
JABURN	1,50	1,87	2,25	3,00	3,75	4,50
JACK DANIELS	1,50	1,87	2,25	3,00	3,75	4,50
JAMESON	1,50	1,87	2,25	3,00	3,75	4,50
JIM BEAM	1,50	1,87	2,25	3,00	3,75	4,50
JOHNNY WALKER	1,50	1,87	2,25	3,00	3,75	4,50
JOSE CUERVO	1,50	1,87	2,25	3,00	3,75	4,50
JÆGERMEISTER	1,70	2,14	2,55	3,40	4,25	5,10
KAHLUA	2,20	2,75	3,30	4,40	5,50	6,60
KILBEGGAN	1,50	1,87	2,25	3,00	3,75	4,50
KING GEORGE	1,50	1,87	2,25	3,00	3,75	4,50
LAPHROAIG	1,50	1,87	2,25	3,00	3,75	4,50
MAC ALLAN	1,50	1,87	2,25	3,00	3,75	4,50
MALIBU	1,70	2,14	2,55	3,40	4,25	5,10
MARTELL	1,50	1,87	2,25	3,00	3,75	4,50
NAVY SHOT	1,50	1,87	2,25	3,00	3,75	4,50
NORDCAP VODKA	1,50	1,87	2,25	3,00	3,75	4,50
NORDSØ	1,70	2,14	2,55	3,40	4,25	5,10
OTARD	1,50	1,87	2,25	3,00	3,75	4,50
OUZO	1,60	2,00	2,40	3,20	4,00	4,80
PERNOD	1,60	2,00	2,40	3,20	4,00	4,80
PISANG AMBON	1,60	2,00	2,40	3,20	4,00	4,80
PORT WOOD	1,50	1,87	2,25	3,00	3,75	4,50
RATZEPUTZ	1,65	2,06	2,47	3,30	4,12	4,94
REMY MARTIN	1,50	1,87	2,25	3,00	3,75	4,50
ROSE APRICOT	1,60	2,00	2,40	3,20	4,00	4,80
ROSE LIME	1,60	2,00	2,40	3,20	4,00	4,80
SAFARI	1,65	2,06	2,47	3,30	4,12	4,94

Recommended sizes in oz.

PRODUKT	½ oz	1 oz	1½ oz	2 oz	2½ oz	3 oz
ABSOLUT MANDARIN	1,06	2,13	3,19	4,26	5,32	6,38
ARNBITTER	1,20	2,41	3,61	4,82	6,02	7,23
BACARDI	1,06	2,13	3,19	4,26	5,32	6,38
BACARDI 8 YEAR	1,06	2,13	3,19	4,26	5,32	6,38
BACARDI GOLDEN	1,06	2,13	3,19	4,26	5,32	6,38
BACARDI LEMON	1,06	2,13	3,19	4,26	5,32	6,38
BACARDI RAZZ	1,06	2,13	3,19	4,26	5,32	6,38
BAILEY	2,21	4,46	6,67	8,92	11,13	13,34
BALLENTINES	1,06	2,13	3,19	4,26	5,32	6,38
BEEFEATER	1,06	2,13	3,19	4,26	5,32	6,38
BLUE CURACAO	1,17	2,34	3,51	4,68	5,85	7,02
BLÅ AALBORG	1,06	2,13	3,19	4,26	5,32	6,38
BOLS BANAN	1,13	2,27	3,40	4,54	5,67	6,80
BOLS BLUE	1,13	2,27	3,40	4,54	5,67	6,80
BOLS COCOS	1,13	2,27	3,40	4,54	5,67	6,80
BOLS GIN	1,06	2,13	3,19	4,26	5,32	6,38
BOMBAY GIN	1,06	2,13	3,19	4,26	5,32	6,38
BOONEKAMP	1,20	2,41	3,61	4,82	6,02	7,23
CACHACA	1,06	2,13	3,19	4,26	5,32	6,38
CALVADOS	1,06	2,13	3,19	4,26	5,32	6,38
CAMPARI	1,20	2,41	3,61	4,82	6,02	7,23
CANADIAN CLUB	1,06	2,13	3,19	4,26	5,32	6,38
CAPTAIN MORGAN	1,06	2,13	3,19	4,26	5,32	6,38
CHIVAS REGAL	1,06	2,13	3,19	4,26	5,32	6,38
COINTREAU	1,20	2,41	3,61	4,82	6,02	7,23
COURVOISIER	1,06	2,13	3,19	4,26	5,32	6,38
CREME DE BANANAS	1,17	2,34	3,51	4,68	5,85	7,02
CUBA APRICOT	1,20	2,41	3,61	4,82	6,02	7,23
CUBA CARAMEL	1,77	3,55	5,32	7,10	8,87	10,64
CUBA CURRANT	1,06	2,13	3,19	4,26	5,32	6,38
CUBA MINT	1,20	2,41	3,61	4,82	6,02	7,23
CUBA ORANGE	1,20	2,41	3,61	4,82	6,02	7,23
CUBA STRAWBERRY	1,20	2,41	3,61	4,82	6,02	7,23
CUBA VODKA	1,06	2,13	3,19	4,26	5,32	6,38
DANZIGER	1,20	2,41	3,61	4,82	6,02	7,23
DANZKA	1,06	2,13	3,19	4,26	5,32	6,38
DOUBLE WOOD	1,06	2,13	3,19	4,26	5,32	6,38
DR. NIELSEN	1.17	2.34	3.51	4.68	5.85	7.02

Recommended sizes in oz.

PRODUKT	½ oz	1 oz	1½ oz	2 oz	2½ oz	3 oz
GORDONS GIN	1,06	2,13	3,19	4,26	5,32	6,38
GRAND MARNIER	1,20	2,41	3,61	4,82	6,02	7,23
GRENADINE	1,42	2,84	4,26	5,68	7,10	8,52
GREY SHOT	1,20	2,41	3,61	4,82	6,02	7,23
HAVANA CLUB	1,06	2,13	3,19	4,26	5,32	6,38
HENNESSY	1,06	2,13	3,19	4,26	5,32	6,38
J & B	1,06	2,13	3,19	4,26	5,32	6,38
JABURN	1,06	2,13	3,19	4,26	5,32	6,38
JACK DANIELS	1,06	2,13	3,19	4,26	5,32	6,38
JAMESON	1,06	2,13	3,19	4,26	5,32	6,38
JIM BEAM	1,06	2,13	3,19	4,26	5,32	6,38
JOHNNY WALKER	1,06	2,13	3,19	4,26	5,32	6,38
JOSE CUERVO	1,06	2,13	3,19	4,26	5,32	6,38
JÆGERMEISTER	1,20	2,41	3,61	4,82	6,02	7,23
KAHLUA	1,56	3,12	4,68	6,24	7,80	9,36
KILBEGGAN	1,06	2,13	3,19	4,26	5,32	6,38
KING GEORGE	1,06	2,13	3,19	4,26	5,32	6,38
LAPHROAIG	1,06	2,13	3,19	4,26	5,32	6,38
MAC ALLAN	1,06	2,13	3,19	4,26	5,32	6,38
MALIBU	1,20	2,41	3,61	4,82	6,02	7,23
MARTELL	1,06	2,13	3,19	4,26	5,32	6,38
NAVY SHOT	1,06	2,13	3,19	4,26	5,32	6,38
NORDCAP VODKA	1,06	2,13	3,19	4,26	5,32	6,38
NORDSØ	1,20	2,41	3,61	4,82	6,02	7,23
OTARD	1,06	2,13	3,19	4,26	5,32	6,38
OUZO	1,13	2,27	3,40	4,54	5,67	6,80
PERNOD	1,13	2,27	3,40	4,54	5,67	6,80
PISANG AMBON	1,13	2,27	3,40	4,54	5,67	6,80
PORT WOOD	1,06	2,13	3,19	4,26	5,32	6,38
RATZEPUTZ	1,17	2,34	3,51	4,68	5,85	7,02
REMY MARTIN	1,06	2,13	3,19	4,26	5,32	6,38
ROSE APRICOT	1,13	2,27	3,40	4,54	5,67	6,80
ROSE LIME	1,13	2,27	3,40	4,54	5,67	6,80
SAFARI	1,17	2,34	3,51	4,68	5,85	7,02
SAMBUCA	2,13	4,26	6,39	8,52	10,65	12,78
SEAMANS SHOT	1,06	2,13	3,19	4,26	5,32	6,38
SIERRA TEQUILA	1,06	2,13	3,19	4,26	5,32	6,38
SKYY VODKA	1,06	2,13	3,19	4,26	5,32	6,38

Troubleshooting:

Error	**Solution:**

LED 1 off and LED 2 off

No power to the rack.

Rack PCB can be burnt.

Check if power cable is connected properly.

If 32VAC has been connected to "Ground"(GND), the rack PCB has been damaged.
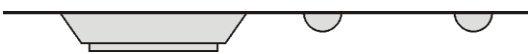
Green light in Both LEDs but no dispense

Check if 2 racks have been given the same address.

Check if all levers click correctly (must make clicking sound)

Check if waiter key is inserted (Remove if not in use).
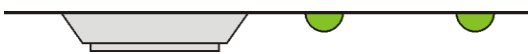
Green light in LED 1 & red light in LED 2

No contact with TAP2500. Check if unit is "On".

Check loop connection!

Ensure there is a resistor at both loop ends. Check for short circuits on either power- or loop cables.

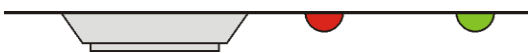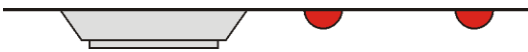Check if Waiter Key is missing... & eventually apply one..
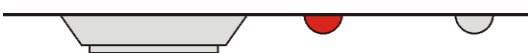
Troubleshooting:

Error	**Solution**
Green LED in 1 but LED2 is Off	Rack is in stand alone mode. (no loop)
Red LED in 1 and green LED in 2	Rack is set in Last drink detection mode Reset the blinking arm.
Both LEDS are red	Rack PCB is damaged or burned. Rack may be set in last drink detection mode Blinking arm may need reset + no contact on the loop cable.
LED 1 is red and LED 2 is Off	Rack in last drink detection mode and blinking arm must be reset + rack set in Stand alone mode.
LED 1 and 2 are both green but no dispense.	When using TAP2400 Master Unit: Set **Dual size ND to YES** even if only 1 size needed!
Double lines are printed on the Place list-Report on Tap 2400 when set for 1 size.	Set Size 2 to **Not Used** on Tap 2400

Cables & Connectors:

Cables:
Loop cable between Tap 2500 and racks: 6 conductor flat modular cord
Loop cable between Tap 2500 and Tap 2520: 8 conductor flat modular cord
PC Cable: Liycy 5x 0,14 mm.

Connectors:
Loopcable between Tap 2500 and racks: RJ12 Plug 6P6C
Loopcable between Tap 2500 and Tap 2520: RJ45 Plug 8P8C
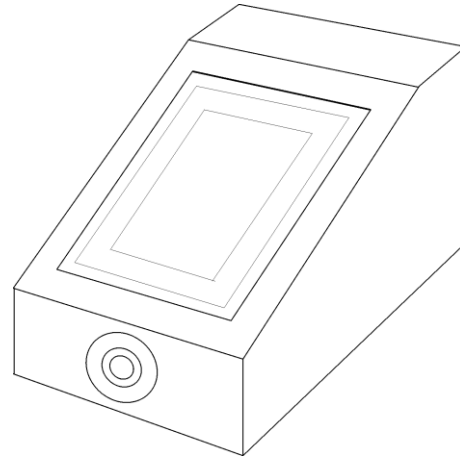PC cable: Weidmüller BL 3.5/3 SN OR + Sub D 9 way female

Resistor:
Resistor in both LOOP ends: MRS25 1% 124Ω

Size and weight:

Tap 2500:

Length: 150 mm.
Width: 113 mm.
Height: 90 mm.
Weight: 0,630 Kg.
Power: 9V DC 500mA

Tap 2520:

Length: 215mm.
Width: 110 mm.
Height: 60 mm.
Weight 0,360 Kg
Power: 9V DC 500mA

Rack Power supplies:

Length: 65 mm.
Width: 50 mm.
Height: 42 mm.
Weight: 0,230 Kg.
Input: 230VAC 50Hz 4,5W
Output: 9V DC 500mA