

USERS MANUEL



LIQUOR CONTROL

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PREFACE

Control Plus G.L. develops and manufactures high quality liquor control devices and draft beer monitors. Our company develops cost efficient solutions that are used around the world we have installations across North America, the Caribbean and in Europe.

Control Plus G.L. offers a complete bar control solution allowing the end user to precisely monitor soft drinks, liquor and wine. All our monitoring devices offer communication options that allow us to interface to cash registers, printers and point of sale systems.



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INTRO

LIQUOR CONTROL

LIQUOR CONTROL is a portion control device for liquor and wine. This unit allows the flexibility of four portions and 256 different products. All these 256 products are made possible through microchip technology. Allowing the user to individually program each spout. To allow better bar management this device allows eight different programmable price periods daily. Auto start-up, shut down and pre-programmed report printing. This unit is also trilingual (French, English, or Spanish). This system is also POS, Printer and ECR friendly.

UNPACKING










Each box contains the following:

- Liquor control device
- 24 v power supply
- Mounting bracket
- Activator ring holder

Additional items required not included.

Seals either heat shrink or paper and the necessary combination of coded pourers.
Spout washing device – Rubber or Magnetic

HELPFUL DO'S AND DON'TS

-  - Do not immerse the activator ring in any liquid.
-  - Install the unit a safe distance from water.
-  - Do not install the unit next a heat source or close to any source of static electricity.
-  - Keep the power supply dry.
-  - Do not open the case risk of electric shock and no owner serviceable parts inside.
-  - Do not use spouts on the bottles to choose your portions.
-  - Always use a grounded designated outlet.
-  - Always use a spout cleaning device. (Soaking spouts is useless).
-  - Always use spout covers to protect the spouts from contamination from dirt and flies.

LET'S GET STARTED

Install the unit in a suitable location using the plastic mounting bracket. Plug the 24v power supply into the back of the unit. Then into the proper power source. Turn the key on the faceplate to the **RUN** position.

RUN

- Normal mode of operation.

PGM

- Programming mode for set-up

P1

- Portion 1 in **RUN** and hundreds in **PGM**.

P2

- Portion 2 in **RUN** and tens in **PGM**.

P3

- Portion 3 in **RUN** and units in **PGM**.

P4

- Portion 4 in **RUN** and next in **PGM**.

Several programming options require the use of a PS2 keyboard (104 keys) moreover many numeric entries are much simpler to enter using a keyboard in programming mode using **P1** and **P4** you can quickly flip through various menus. You may also accomplish this using the right and left arrows on the keyboard. Using keys 2 and 3 allow you to enter these menus.

BASIC OPERATION

In run mode the unit will monitor simply and precisely liquor and wine. Just chose the proper portion, insert the pouring spout into the activator and pour the activator will automatically stop when the portion is complete. (Pour at a 90' angle over the glass.)

In run mode we can also view and print report. But only as a stand alone or interfaced to a printer. Unavailable if linked to an ECR or POS using the unit as a stand alone (without printer) you can not activate price list or price levels.

To view counters

- Press **P1**

To print report

- Press **P1** and **P4** simultaneously.

PROGRAM MODE

To activate turn key to **PGM**

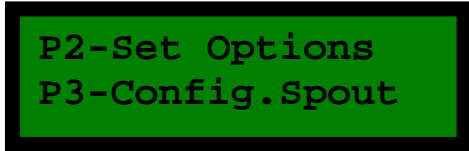
View 1



```
P2-Z2 Report  
P3-Sales(Closed)
```

Press **P4**

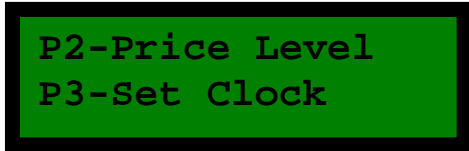
View 2



```
P2-Set Options  
P3-Config.Spout
```

Press **P4**

View 3



```
P2-Price Level  
P3-Set Clock
```

Press **P4**

View 4



```
P2-Prog.Spout
```

Press **P4**

View 5



```
ID:0710    DB:01  
SERIAL#:   0005L2
```


VIEW 1 PGM

P2- Z2 Report

Press **P2** to print Z2 report. Z2 report is the total of the portions poured per spout and is independent of Z1 report in **RUN** mode. To reset Z2 counters to zero press **P4** or press **P1** to keep totals.



```
P2-Z2 Report
P3-Sales(Closed)
```



```
Reset Counter?
P1-NO      P4-yes
```

P3-Sales open/closed

Press **P3** to open sales. The unit is now ready to dispense to close press **P3**,

OPEN



```
P2-Z2 Report
P3-Sales (Open)
```

CLOSE



```
P2-Z2 Report
P3-Sales(Closed)
```

VIEW 2 PGM

P2 Options

To configure options see page 10-15

```
P2-Set Options
P3-Config.Spout
```

Press **P2** to configure desired options enter the # that corresponds to your needs or preferences and press **P4** next.

SCREEN 1

```
GENERAL - 001
P123-ADD P4-NEXT
```

SCREEN 7

```
STATION - 001
P123-ADD P4-NEXT
```

SCREEN 2

```
GENERAL2 - 000
P123-ADD P4-NEXT
```

SCREEN 8

```
ENGLISH - 001
P123-ADD P4-NEXT
```

SCREEN 3

```
GENERAL3 - 000
P123-ADD P4-NEXT
```

SCREEN 9

```
CONTRAST - 006
P123-ADD P4-NEXT
```

SCREEN 4

```
GENERAL4 - 000
P123-ADD P4-NEXT
```

SCREEN 10

```
INTERVAL - 090
P123-ADD P4-NEXT
```

SCREEN 5

```
COMMUN. - 128
P123-ADD P4-NEXT
```

SCREEN 11

```
SCRANER - 001
P123-ADD P4-NEXT
```

SCREEN 6

```
Price Lv - 001
P123-ADD P4-NEXT
```

OPTIONS TABLE

GENERAL	
	Features
+1	Sales Open
+2	Enable Bottle SKU Database
+4	Enable Price Level Schedule
+8	Enable Price List
+64	Enable Event Schedule
+128	Enable Owner Protected Program (OPP)
	Scanner port
+16	Activates ECR Scanner port
+48	Activates Berg compatible interface (06=ACK required from the controlling device)
	=Total

GENERAL2	
	Default portion
+0	Portion 1 is the default portion
+1	Portion 2 is the default portion
+2	Portion 3 is the default portion
+3	Portion 4 is the default portion
+4	Return to above default portion after 15 sec.
+8	Return to above default portion after 30 sec.
+12	Return to above default portion after 45 sec.
+16	Return to above default portion after each pour
	Inter-PLU Delay
+0	No delay
+32	500ms delay
+64	1sec. Delay
+96	1,5 sec. Delay
+128	Phase X CRC CCITT-8408
	=Total

GENERAL3	
	Auto-Repeat
+1	Enable Auto-Repeat Feature
+2	Auto-Repeat delay Add 0.250 sec
+4	Auto-Repeat delay Add 0.500 sec
+8	Auto-Repeat delay Add 1 sec
	Activation delay
+16	Activation delay Add 0.25 sec
+32	Activation delay Add 0.5 sec
	=Total

GENERAL4	
+16	Station is designated as a slave. (when using units in a network)
+32	Station is designated as a master. (when using units in a network)
+64	Enable free pour when setting portions.
+128	Bypass Fingerprint Check When Pouring
	=Total

COMMUN.	
	Reporting
+0	6 extra line feeds at the end of report
+1	9 extra line feeds at the end of report
+2	12 extra line feeds at the end of report
+3	15 extra line feeds at the end of report
+4	Will not print out reports while in the RUN mode
	Parity
+0	No parity
+16	Odd parity
+48	Even parity
	Baud rate
+0	1200 Baud rate
+64	2400 Baud rate
+8	4800 Baud rate
+128	9600 Baud rate
+72	28800 Baud rate
+192	19200 Baud rate
+138	38400 Baud rate
+200	57600 Baud rate
	ALWAYS POWER DOWN AFTER CHANGING COMMUNICATION OPTIONS TO RECORD THE CHANGES.
	=Total

PRICELVL	
	Price Levels
1-8	Activate that number of price levels
	=Total

STATION	
1-255	Station #
	=Total

CHOICE OF LANGUAGE	
+0	French
+1	English
+2	Spanish
+3	Portuguese
	=Total

CONTRAST	
1-22	Contrast on the screen (+6 Standard)
=Total	

INTERVAL	
1-255	Debit interval (100=1 Oz IMP if the interval option is set to 45.)
=Total	

SCANNEUR	
PLU Options	
+1	Send 12 digit PLU (099999 XXXYY)
+0	XY (Portion X, Spout Y)
+2	1XY (Portion X, Spout Y)
+4	10XY (Portion X, Spout Y)
+6	100XY (Portion X, Spout Y)
+8	Use PLU Stored in memory
When the ECR Scanner Port is activated	
+16	Activates the check digit required by certain ECRs
+32	Adds a prefix byte before the PLU
+64	Removes the line feed (0x0D)
+128	Removes the carriage return (0x0A)
When the Berg compatible interface is activated	
+16	Extends communication delay (add 1 sec.)
+32	Extends communication delay (add 1 sec.)
+128	Does not wait for a confirmation (No ACK Required)
=Total	

PREFIXE1	
+2	CRS3000 Scanner Interface
+65	Uniwell Scanner interface
=Total	

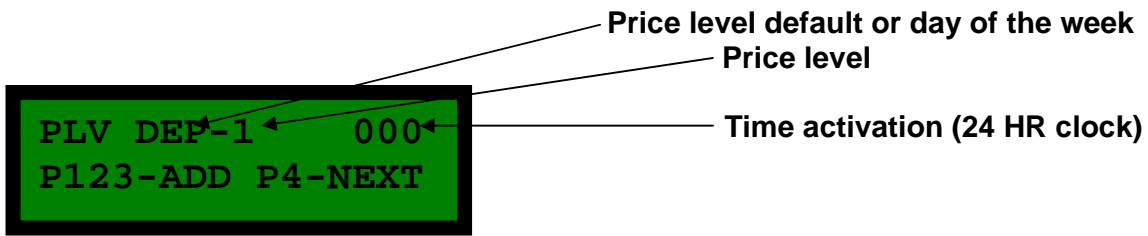
PREFIXE2	
+2	CRS3000 Scanner Interface
+65	Uniwell Scanner interface
=Total	

PRICLV:Price Level Schedule *	
HRS	PLV default and days
99	DISABLE
+0-23	Set Price Level 1
+0-23	Set Price Level 2
+0-23	Set Price Level 3
+0-23	Set Price Level 4
+0-23	Set Price Level 5
+0-23	Set Price Level 6
+0-23	Set Price Level 7
+0-23	Set Price Level 8
	=Total

EVNT SC.: Event Schedule *	
HRS	
99	DISABLE
00-23	Close
00-23	Open
00-23	Print X2 Report
00-23	Print Z2 Report
00-23	Reboot Station
	=Total

Price level schedule

Once you have activated this option the schedule will come up on the LCD



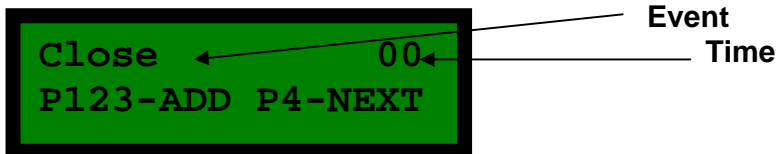
DEF is price level schedule by default for all days of the week. The price levels are applied in reverse order from 8-1. So price level 1 has precedence over 2 and over 3 and so on. A specific day has precedence over default. Each price level can only be used once a day.

Enter time activation of price level (00-23 or 99 to cancel) using **P2/P3** on the faceplate or the numeric keys on a keyboard (0-9). Then record your changes using **P4** on the faceplate or ENTER on the keyboard.

Never leave an option you don't intend to use at 00. Because the unit wills concenter this to be midnight to deactivate enters 99.

Event schedule

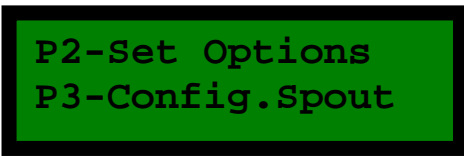
When this option is activated the event schedule the LCD will show



Enter hour (00-23 or 99 to deactivate) using **P2/P3** on the faceplate or the numeric keys on a keyboard (0-9).

Never leave an option you don't intend to use at 00. Because the unit wills concenter this to be midnight to deactivate enters 99.

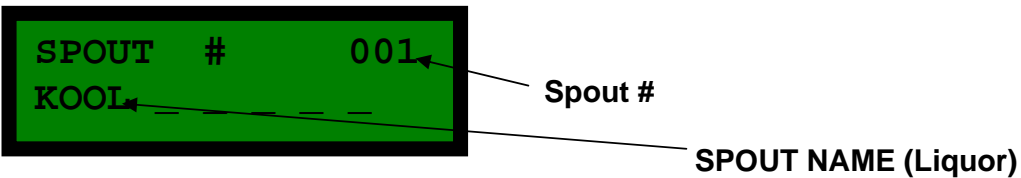
P3 –Conf.Spout



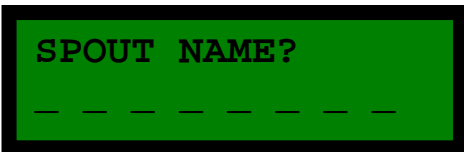
Press **P3** or **#3** on the keyboard to configure spouts.



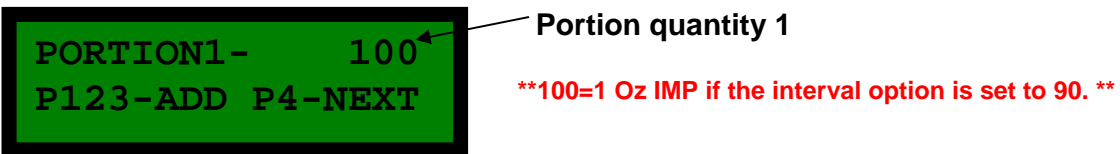
Press **P4** or enter a new liquor or use keyboard to search among pre-programmed liquor that requires programming. The LCD will show,



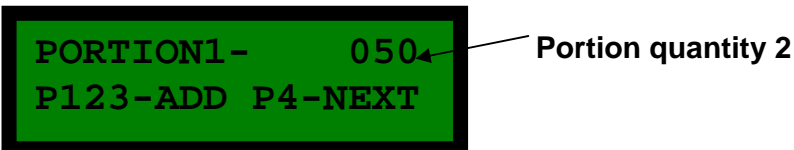
Press **P3** or use the keyboard to enter the spout # then press **P4** or enter #4 on the keyboard.



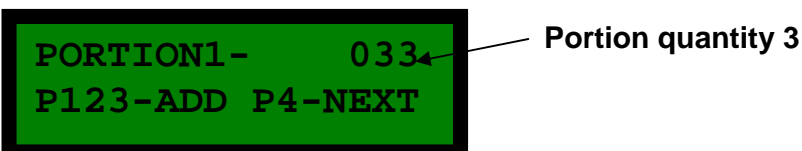
Use the keyboard to enter the liquor name then press **P4** or enter on the keyboard. The LCD will show.



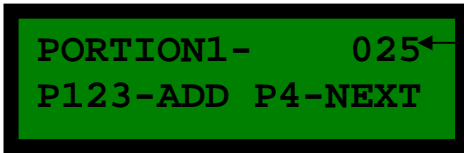
Use **P1/ P2/ P3** on the unit to enter the desired quantity or keyboard then press enter or **P4** for the next portion.



Use **P1/ P2/ P3** on the unit to enter the desired quantity or keyboard then press enter or **P4** for the next portion.



Use **P1/ P2/ P3** on the unit to enter the desired quantity or keyboard then press enter or **P4** for the next portion.

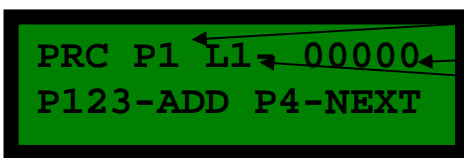


Portion quantity 4

Use **P1/ P2/ P3** on the unit to enter the desired quantity or keyboard then press enter or **P4** to return to search.

When price levels are activated

The following display will come up.



Portion

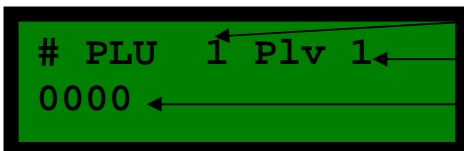
Price

Level

Now enter the desired price using the **P1/P2/P3** buttons. Then **P4** for next.

Setting custom PLU'S

The automatic PLU setup is 4 digits for the **LIQUOR CONTROL YYXX** (spout# **YY** / portion# **XX**)



Portion

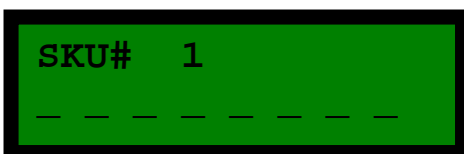
Price level

PLU #

But the unit can accept any number to modify use the **P1/P2/P3** to enter the desired number then **P4** for next.

Setting barcode option

When using barcode option. If the barcode option is activated the LCS will show.



Enter here the barcode # using faceplate or keyboard. Then press **P4** next or enter on the keyboard to enter the next barcode you can use up to 4 barcode/liquor brand. Or you can use a barcode PS2 scanner (keyboard wedge installed) to scan the barcode on the actual bottle.

VIEW 3 PGM

P2-Price Level

```
P2-Price Level
P3-Set Clock
```

Press **P2** to manually change price levels

```
Price Lv-      1 ← Price level #
P123-ADD P4-NEXT
```

Enter the desired price level **P3**

P3-Set clock

```
P2-Price Level
P3-Set Clock
```

Press **P3** to set clock

```
Year   -      09
P123-ADD P4-NEXT
```

Enter year using **P2** and **P3**.Then **P4** for next.

```
Month  -      FEB
P123-ADD P4-NEXT
```

Enter month using **P3**.Then **P4** for next.

```
Date   -      10
P123-ADD P4-NEXT
```

Enter date using **P2** and **P3**.Then **P4** for next.

Day - SAT
P123-ADD P4-NEXT

Enter day using **P2** and **P3**. Then **P4** for next.

Hour - 12
P123-ADD P4-NEXT

Enter hour (24 HR clock) using **P3**. Then **P4** for next.

Minute - 49
P123-ADD P4-NEXT

Set minutes using **P2** and **P3**. Then **P4** for next.

Second - 21
P123-ADD P4-NEXT

Set seconds using **P2** and **P3**. Then **P4** for next.

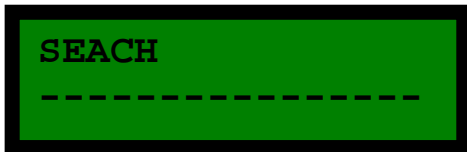
VIEW 4 PGM

P2-Prog.Spout

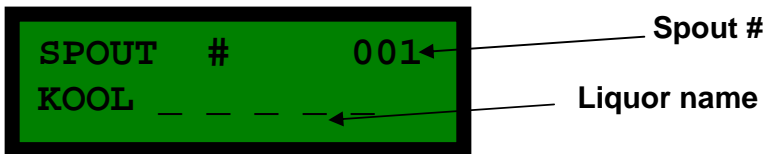
This mode is used to program the microchip in the spout. Each spout can be re-programmed many times.



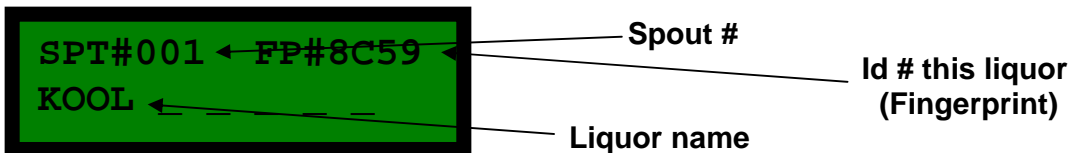
Press **P2** or keyboard #2 to program spouts. The LCD show.



Use the keyboard to type in liquor name the LCD will show.



Press **P4** or enter on the keyboard to program a spout for this liquor. The LCD will show.



Insert the spout into the activator ring. Hold the spout in the activator ring till the LCD shows.

SPOUT PROGRAMMED



SPOUT NOT PROGRAMMED



****TURN KEY TO RUN THEN TO PGM TO RETURN TO THE MAIN MENU****

VIEW 5 PGM

This is strictly an information screen.

```
ID:0710 DB:01  
SERIAL#: 0005L2
```

Version #.

Serial # of unit.

Identification # of unit.

SERVICE MODE

To access this mode

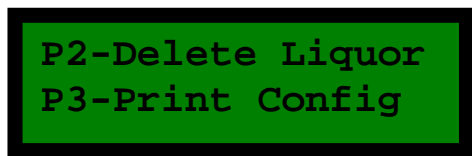
- 1- Power down the unit.
- 2- Turn key to **PGM**
- 3- Hold down **P1**
- 4- And power up the unit. The LCD on the faceplate will show ;

View 1



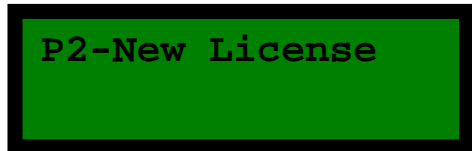
Press **P4**.

View 2




Press **P4**.

View 3



VIEW 1 SERVICE MODE

P2-Master Clear



P2-Master Clear
P3-Copy Memory

Press **P2** for Master Clear



LOADING
FACTORY DEFAULT

The unit is now reset to its original settings.

P3-Copy Memory

To copy memory from 1 unit to another, it is important to use different station #'s




P2-Master Clear
P3-Copy Memory

Press **P3** for the Copy Memory



STATION - 002
P123-ADD P4-NEXT

Press **P1/P2/P3** to obtain desired station # and press **P4** for copy.

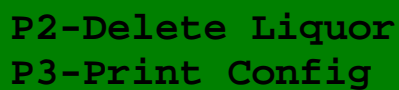


SEND MEMORY
00F23584

Wait till send is complete. The screen will revert to the original screen display.
(This may take a few minutes).

VIEW 2 SERVICE MODE

P2-Delete Liquor

A green rectangular LCD display with a black border. The text on the screen is:

P2-Delete Liquor
P3-Print Config

Press **P2** to delete all liquors. The LCD will show.

A green rectangular LCD display with a black border. The text on the screen is:

LOADING
FACTORY DEFAULT

The unit has now master cleared all liquors but has kept in memory the programmed options.

P3-Print Config.

A green rectangular LCD display with a black border. The text on the screen is:

P2-Delete Liquor
P3-Print Config

Press **P3**

VIEW 3 SERVICE MODE

P2-New License

A green rectangular LCD display with a black border. The text on the screen is:

P2-New License

For factory use only.

Multiplex Mode

Introduction

This multiplex mode is used for two purposes;

- 1- To synchronies on multiple stations changes that have been made to liquor names, portions, PLU's etc.
- 2- To print multiple reports to a single station.

The main unit will be referred to as the master this is the station from which all changes or requests will originate. The other stations will be referred to as slaves (or mirrors.) they receive changes from the master unit. The slave (mirror) unit can be linked to POS in active mode and still receive changes or data (when in BERG or scanner mode). Using the RS-232 port communication with the master unit is interrupted when there is a transaction with the POS, but automatically resumes when the transaction has been completed.

Installation

Set-up the master to desired configuration. Then clone slaves using the copy memory option (see P-20). Remember that in multiplex mode only the changes will be transmitted the station program options must be identical. This is why the cloning process is so important. Cloning is achieved through the RS-232 port using a null modem cable (2-3, 3-2, 5-5).

The stations must be linked to one another using a straight telephone cable. Using the RS-485 net port (2-2, 3-3).

Now verify the configuration of each station using the chart below.

Master		Slave	
GENERAL	SAME	GENERAL	SAME
GENERAL2 (2)	+128	GENERAL2 (2)	+128
GENERAL3	SAME	GENERAL3	SAME
GENERAL4 (1)	+032	GENERAL4 (1)	+016
COMMUN. (2)	+200	COMMUN. (2)	+200
NIX PRICE	SAME	NIX PRICE	SAME
STATION	001	STATION	2,3,4,5
SCANNER	SAME	SCANNER	SAME
MIRROR (3)	002		
MIRROR (3)	003		
MIRROR (3)	004		
MIRROR (3)	005		

- (1) Options activated in multiplex mode
- (2) Recommended baud rate 57600, if the printer does not support this speed any baud rate can be used but transfer rate will be affected,
- (3) If there is no 3, 4, ors mirrors then enter 000. Same=must be identical on both sides.

Congratulations! This operation is now complete. Test communication by pressing **P1-P4** simultaneously on the master station. A complete report from all stations should print.

Functionality

When modifying or adding a liquor on the master unit. The changes are automatically replicated to the slave unit all changes or additions that fall under **Config. Liquor** will change. If the master unit freezes during this operation, check the cabling and the configuration of all units. Replication also applies to price levels and the event schedules.

If you suspect that the units are out of sync you can use the **SYNCH. MIRROR** in program mode interruption of connection during download can put the mirrors out of sync.

Z1 report press simultaneously **P1-P4** a combined report from all stations will print at the master.

Z2 report at the master will automatically reset all slave stations. At any time you can print an X report without resetting the counters.

Configuration de cable

SYSTEME CONTROL PRINTER

<u>DB-9M</u>		<u>DB-25M</u>
DCD	1	1 ChGND
RXD	2	2 TXD
TXD	3	3 RXD
DTR	4	4 RTS
GND	5	5 CTS
DSR	6	6 DSR
RTS	7	7 GND
CTS	8	8 DCD
VCC	9	20 DTR

Printer

**Other
POS
Printer**

SYSTEME CONTROL PRINTER

<u>DB-9M</u>		<u>RJ-45</u>
N.C.	1	1 +VCC
RXD	2	2 DSR
TXD	3	3 TXD
DTR	4	4 RXD
SGND	5	5 RTS
DSR	6	6 CTS
RTS	7	7 GND
CTS	8	8 DTR
N.C.	9	9 RI
FGND		FGND

**Ellix 10
Printer**

INTERFACE ECR & PC

ECR		SYSTEME CONTROL	
<u>DB-9</u>		<u>DB-9M</u>	
	1	1	
RXD	2	2	RXD
TXD	3	3	TXD
DTR	4	4	DTR
GND	5	5	GND
DSR	6	6	DSR
RTS	7	7	CTS
CTS	8	8	RTS

ECR



PC		SYSTEME CONTROL	
<u>DB-9</u>		<u>DB-9M</u>	
DCD	1	1	DCD
RXD	2	2	RXD
TXD	3	3	TXD
DTR	4	4	DTR
GND	5	5	GND
DSR	6	6	DSR
RTS	7	7	RTS
CTS	8	8	CTS
VCC	9	9	VCC

PC

