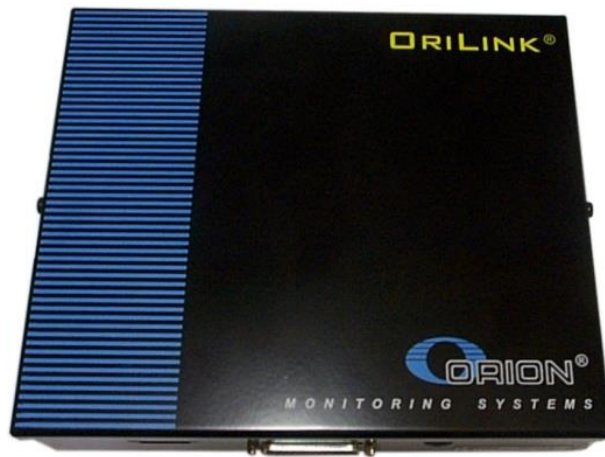




## ORILINK® MONITORING SYSTEM



### PRINTER MODUL, 23402

## Table of Contents

<b>1. INTRODUCTION</b> .....	<b>3</b>
<b>2. MECHANICAL INSTALLATION</b> .....	<b>3</b>
<b>3. ELECTRIC INSTALLATION</b> .....	<b>3</b>
<b>4. CONFIGURATION</b> .....	<b>4</b>
4.1. CHECK BEFORE CONFIGURATION .....	4
4.2. ADDRESSING THE NEW MODULE .....	4
4.3. IMPORTANT INFORMATION FOR MODULES EQUIPPED WITH FLASH CHIP .....	4
4.3.1. Reports based on a time period. ....	4
4.3.2. Full report customisation possibility. ....	4
4.4. SET-UP MODE.....	4
4.5. CHANGE ADDRESS [PM//ADDRESS].....	5
4.6. RECOMMENDATION FOR SETTING ADDRESSES .....	5
<b>5. ADMINISTRATE USERS</b> .....	<b>5</b>
5.1. ADD A USER [PM//DB/ADDUSER] .....	5
5.2. REMOVE A USER [PM//USERDB/DELUSER] .....	6
5.3. REMOVE ALL USERS [PM//USERDB/DELALL].....	7
5.4. CHANGE USER INFORMATION.....	7
<b>6. TRANSACTION DATABASE</b> .....	<b>7</b>
6.1. DELETE TRANSACTION DATABASE [PM//TRANDB/DELTRAN].....	7
6.2. PRINT ALL TRANSACTIONS [PM//TRANDB/PRNTRAN/ALL].....	8
6.3. PRINT BY TRANSACTION [PM//TRANDB/PRNTRAN/TRAN] .....	8
6.4. PRINT BY JOB NUMBER [PM//TRANDB/PRNTRAN/JOB] .....	9
6.5. PRINT BY EMPLOYEE NUMBER [PM//TRANDB/PRNTRAN/EMP] .....	9
<b>7. JOB DATABASE</b> .....	<b>10</b>
7.1. ADD JOB NUMBER [PM//JOBDB/ADDJOB].....	10
7.1.1. Using wildcard characters. ....	10
7.2. DELETE JOB NUMBER [PM//JOBDB/DELJOB].....	10
7.3. DELETE ALL JOB NUMBERS [PM//JOBDB/DELALL] .....	11
<b>8. TANK DATABASE</b> .....	<b>11</b>
8.1. CHANGE NAME FOR A TANK [PM//TANKDB/TANKX/NAME] .....	11
8.2. CHANGE VOLUME IN A TANK [PM//TANKDB/TANKX/VOL] .....	12
8.3. CHANGE REORDER VOLUME FOR A TANK [PM//TANKDB/TANKX/RVOL].....	12
8.4. CHANGE STOP VOLUME FOR A TANK [PM//TANKDB/TANKX/SVOL] .....	13
8.5. PRINT TANK STATUS [PM//TANKDB/PRN] .....	13
<b>9. MENU TREE</b> .....	<b>14</b>
<b>10. FAST MENU CODES</b> .....	<b>15</b>
<b>11. TECHNICAL SPECIFICATION</b> .....	<b>16</b>
<b>12. PCB PLACED IN A SIO</b> .....	<b>16</b>
<b>13. CLOCK MODULE (CM) MOUNTED ON PM</b> .....	<b>16</b>

## 2. Introduction

The PM (Printer Module with database) is complement to the OriLink® monitoring system. With a PM connected it is possible to have printouts of dispensed volume, see who made a dispense, type of fluid and on which JOB a dispense was made.

**NOTE!** The Orilink® installation manual should be available when installing and configuring a PM.

## 3. Mechanical installation

The PM is delivered mounted in a metal box.

Complete PM in a box is mounted on a wall or other suitable place using the four- $\varnothing 5$  mm holes in the bottom corners of the box. The ticket printer (Orion part number 23354 or other Centronic parallel printer) should be placed protected and secure not too far from the module. The printer cable is 2.5 meters.

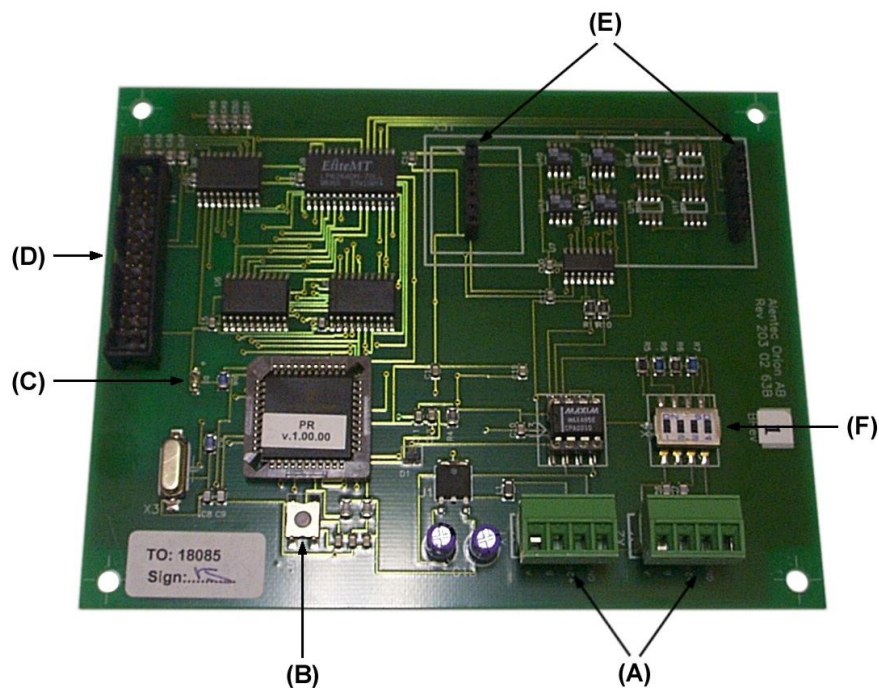
If a small and compact system is needed the PCB version can be mounted in a MPDM. The chassis-connector on the flat cable of the printer module is mounted in the “cut-out” hole on the side of the MPDM. See chapter 4.10.

## 4. Electric installation

The PM has two 4-pin connectors (A) marked **A**, **B**, **+24 V** and **Gnd**, which are used for the OriLink® communication. Follow the cable recommendations in the OriLink® installation manual. A PM normally gets its power supply through the communication cable. If the module is placed far away from an MPDM it is possible to apply an external power-supply to **one** of the connectors (A).

**NOTE!** +24VDC may only be applied to one of the connectors.

The RESET button (B) can be used to reset the module or reset the module address.



If the LED (C) flashes it indicates that the MPDM is working. If it is unlit or lit all the time something is wrong.

The short flat printer cable is connected to the parallel port connector marked (D).

Use the two connectors (E) when installing a clock module.

DIL switches for termination and BIAS are marked (F).

## 5. Configuration

An Orilink® configuration sheet *should* always be filled or altered during the configuration.

**NOTE!** To obtain technical support a copy of the configuration sheet for the complete installation must be sent to Alentec & Orion AB at

**Alentec & Orion AB  
TECHNICAL SUPPORT  
Grustagsvägen 4  
SE-138 40 ÄLTA  
SWEDEN**

or

**orilink@alentec.se**

### 5.1. Check before configuration

Check that the PM is working and communicating with the system according to the Orilink® Manual chapter "Testing modules".

**NOTE!** Do not forget to check and adjust the termination and BIAS according to Orilink® Manual.

### 5.2. Addressing the new module

A new module has no address on delivery. To address a new module or one with an unknown address you press and hold the RESET-button for 5 seconds. This will give the module a temporary address. Next, enter SET-UP-mode on a KeyPad and press 0 + ENTER to access the Main menu of the module. Find the menu to change module-address (see below).

**NOTE!** You can only install one module at a time using this method. If you hold the RESET-button on multiple units simultaneously only the most recently activated is active.

**TIP!** Follow preferably "Recommendation for setting addresses" when setting addresses.

### 5.3. Important information for modules equipped with FLASH chip.

When we changed from OTP chip (One Time Programmable, white label) to FLASH chip technology we also added functions that could not be used with OTP chip.

#### 5.3.1. Reports based on a time period.

If you have a printer module already equipped with a FLASH chip or are updating an old one to FLASH chip you should also add the choices for setting Start Date and End Date in the Fast Menu of a suitable key pad. Fast menu codes for this can be found in chapter "10. Fast Menu Codes".

To be able to have report print out the Start Date and End Date must be set so the report period contain something to print.

The Start Date and End Date could also be set from the basic PM graphic symbol on the PC.

#### 5.3.2. Full report customisation possibility.

The possibility for report customisation was rather limited in the OTP chip version due to lack of program memory. The FLASH version has a much larger program memory so for printer modules with FLASH chip the support for report design has been improved a lot.

To make use of this the foundation for the report design must be initialized properly. Clicking the "Load default" button of the basic PM graphic symbol on the PC does this.

### 5.4. SET-UP mode

Type the word "SETUP" on a KeyPad and press **ENTER**.

Type the password and press **ENTER**.

Type the address of the LED you want to configure and press **ENTER** to access its main menu.

You can add the 4-digit menu code to go directly to the desired menu.

Scroll through the module sub menus by pressing ↑ or ↓. When the desired menu

```
Reel:SETUP  †
EXIT STOP CE ENT
```

```
PASS:_ †
Enter password
```

```
Adr:2???_ †
Address[code]
```

```
PM: †
PM MainMenu
```

is shown press **ENTER** and so on.

**5.5. Change address [PM//Address]**

Enter the [KP//Address] by pressing **ENTER**

Press **ENTER** to show the cursor.

PM: ‡
PM MainMenu

Type the **desired address** confirm with **ENTER**.

When the cursor disappears you are finished.

Press **EXIT** twice to exit set-up.

Adr:2XXX ‡
Set Address 3???

Adress:2XXX ‡
Set Address 2???

**NOTE!** If two or more modules get the same address the system will not work. In that case you have to change address again.

**TIP!** Follow preferably "Recommendation for setting addresses" when setting addresses.

Adr:2XXX ‡
Set Address 2???

**5.6. Recommendation for setting addresses**

Each module demands a unique 16 bit hexadecimal address. There are some forbidden and some reserved addresses but it is possible to use all addresses between 0001 and 9999. To make it easier to support the system we recommend you follow the table to the right.

This means for example that the first PM should have the address 2001 and the next one 2002. . It is a good idea not to use the default address 2000, it makes it easier to add new PM's.

**NOTE!** Do not forget to write all used addresses in the Configuration sheet to avoid collisions.

**NOTE!** Addresses 0000 to 0FFF is forbidden and addresses larger than 9999 are reserved for the system.

Address	Module
0000 – 0FFF	Forbidden
1000 – 1xxx	MPDM
2000 – 2xxx	PM with database
2999	Pcdatabase (reserved)
3000 – 3xxx	KeyPad
4000 – 4xxx	LED-display
5000 – 5xxx	Reserved
6000 – 6xxx	Reserved
7000 – 7xxx	Reserved
8000 – 8999	TCM
9000 – 9999	Reserved
A000 – FFFF	Forbidden

**6. Administrate users**

Store user information in the database. With the default chip the database can store up to 32 users. (64 if the optional chip with version 1.01.XX is used.)

In a smaller system it is possible to store 16 local users in a MPDM

**6.1. Add a user [PM//DB/AddUser]**

A user can be a member of eight different groups named A-H. It is possible to make advanced and complex user rights for dispense points.

**EXAMPLE:** "Bob" is a member of groups AB, user "Stan" is a member of groups BC and the dispense points is divided into three bays A, B and C. In this case both users can open dispense points in bay B but only "Bob" can open dispense points in bay A and only "Stan" can open dispense points in bay C.

Group	Value
A	1
B	2
C	4
D	8
E	16
F	32
G	64
H	128

Each group is represented by a value shown in the chart to the right. The group value is calculated by adding the values for each desired group. Group A and E give a group value of (1+16) which are 17.

Enter menu [PM//UserDB] by pressing ↓ twice.

```
PM:      ‡
PM MainMenu
```

At UserDB: press ENTER.

```
UserDB:  ‡
PM MainMenu
```

At AddUser: press ENTER.

```
AddUser: ‡
Add User
```

Type in the **employee number** (4 digits) and acknowledge by pressing **ENTER**.

```
Emp:_    ‡
Employe No ????
```

Type in a **PIN code** (4 figures) and acknowledge by pressing **ENTER**. If this PIN is already in use the display will show the letter E (Error).

```
PIN:_    ‡
PIN code ????
```

Type in a **group number** (0-255) and acknowledge by pressing **ENTER**.

```
PIN:E    ‡
PIN code ????
```

Type in a **name** (16 letters) and acknowledge by pressing **ENTER**.

```
Group:_  ‡
Group 0-255
```

Press **EXIT three times** to leave set-up mode.

```
Namn:_   ‡
Namn (Max 16 ch)
```

**NOTE! No confirmation is shown. Test it by opening a dispense with the new PIN codes.**

```
AddUser: ‡
Add User
```

## 6.2. Remove a user [PM//UserDB/DelUser]

Enter menu [PM//UserDB] by pressing ↓ two times.

```
PM:      ‡
PM MainMenu
```

At userDB: press ENTER.

```
AnvDB:   ‡
PM MainMenu
```

At **AddUser**: press ↓.

```
AddUser: ‡
Add User
```

Press **ENTER** to get the cursor.

```
DelUser:_ ‡
Delete User
```

Select a user to remove using ↑ or ↓ and press **ENTER** to acknowledge.

```
Emp:XXXX ‡
UP/DOWN ENTER
```

Select the next user and press **ENTER** or press **EXIT** three times to exit

```
Emp:XXXX ‡
UP/DOWN ENTER
```

**NOTE! No confirmation is shown. Test it by opening a dispense with the deleted PIN codes.**

```
Name:_   ‡
Name (Max 16 ch)
```

```
AddUser: ‡
Add User
```

### 6.3. Remove all users [PM//UserDB/DelAll]

Enter menu [PM//UserDB] by pressing ↓ two times.

```
PM:      ‡
PM MainMenu
```

At UserDB: press ENTER.

```
UserDB:  ‡
PM MainMenu
```

At AddUser: press ↓.

```
AddUser: ‡
Add User
```

At DelUser: press ↓.

```
DelUser:_ ‡
Delete User
```

Press ENTER to get the cursor.

```
DelAll:N ‡
Delete All Users
```

Type Y or 1 and then ENTER to acknowledge.

```
DelAll:N ‡
Delete All Users
```

Press EXIT three times to leave Set-Up mode.

```
DelAll:N ‡
Delete All Users
```

**NOTE! No confirmation is shown.**

### 6.4. Change user information

It is not possible to change user information in a OriLink® system without PC. The user with wrong data has to be deleted and then added with the correct data.

## 7. Transaction database

The transaction database can store information about the last 940 transactions. When the database is full the oldest transaction will be replaced by the new, FIFO.

### 7.1. Delete transaction database [PM//TranDB/DelTran]

Enter menu [PM//TranDB] by pressing ↓.

```
PM:      ‡
PM MainMenu
```

At TranDB: press ENTER.

```
TranDB:  ‡
PM MainMenu
```

At DelTran: press ENTER.

```
DelTran:N ‡
Delete All Tran
```

Type Y or 1 and then ENTER to acknowledge.

```
DelTran:N ‡
Delete All Tran
```

Press EXIT three times to leave SET-UP mode.

```
DelTran:N ‡
Delete All Tran
```

**NOTE! This will take about 10 seconds. During this time the PM will not answer to calls on the communication line.**

**7.2. Print all transactions [PM//TranDB/PrnTran/All]**

Enter menu [PM//TranDB] by pressing ↓.

PM: †  
PM MainMenu

At TranDB: press ENTER.

TranDB: †  
PM MainMenu

At DelTran: press ↓.

DelTran: †  
Delete All Tran

At PrnTran: press ENTER.

PrnTran: †  
Print TranDb

At All: press ENTER.

All:N †  
Print All Trans

Type Y or 1 and then ENTER to acknowledge.

All:N †  
Print All Trans

Press EXIT three times to leave SETUP mode.

All:N †  
Print All Trans

**7.3. Print by transaction [PM//TranDB/PrnTran/Tran]**

Enter menu [PM//TranDB] by pressing ↓.

PM: †  
PM MainMenu

At TranDB: press ENTER.

TranDB: †  
PM MainMenu

At DelTran: press ↓.

DelTran: †  
Delete Alla Tran

At PrnTran: press ENTER.

PrnTran: †  
Print TranDb

At All: go to Tran: by scrolling with ↑ or ↓.

All:N †  
Print All Trans

At Tran: press ENTER.

Tran:0 †  
From Transaction

Type the first transaction number and acknowledge with ENTER.

Tran:0 †  
From Transaction

Type the last transaction number and acknowledge with ENTER. If you want to print only one transaction press ENTER immediately.

**EXAMPLE:** Typing 50 as first transaction and 100 as last transaction will print all transactions between 50 and 100.

Tran:0 †  
To Transaction

Press EXIT three times to leave SET-UP mode.

Tran:0 †  
From Transaction



**7.4. Print by Job number [PM//TranDB/PrnTran/Job]**

Enter menu [PM//TranDB] by pressing ↓.

PM: ‡
PM MainMenu

At TranDB: press ENTER.

TranDB: ‡
PM MainMenu

At DelTran: press ↓.

DelTran: ‡
Delete All Tran

At PrnTran: press ENTER.

PrnTran: ‡
Print TranDb

At All: go to Job: by scrolling with ↑ or ↓.

All:N ‡
Print All Trans

At Job: press ENTER

JOBno: ‡
Per JOBnumber

Type the Job number and then ENTER to acknowledge.

_ ‡
Per JOBnumber

Press EXIT three times to leave SET-UP mode.

JOBno: ‡
Per JOBnumber

**7.5. Print by employee number [PM//TranDB/PrnTran/Emp]**

Enter menu [PM//TranDB] by pressing ↓.

PM: ‡
PM MainMenu

At TranDB: press ENTER.

TranDB: ‡
PM MainMenu

At DelTran: press ↓.

DelTran: ‡
Delete All Tran

At PrnTran: press ENTER.

PrnTran: ‡
Print TranDb

At All: go to Emp: by scrolling with ↑ or ↓.

All:N ‡
Print All Trans

At Emp: press ENTER

Emp: ‡
Per Employe no

Type the employee number and then ENTER to acknowledge.

Emp:0 ‡
Per Employe no

Press EXIT three times to leave SET-UP mode.

Emp:0 ‡
Per Employe no

## 8. JOB database

The system can be set up to use JOB number validation. This is used to restrict oil dispensing to valid jobs only.

### 8.1. Add Job number [PM//JobDB/AddJob]

Enter menu [PM//JobDB] by pressing ↓ three times.

PM: ‡
PM MainMenu

At JobDB: press ENTER.

JobDB: ‡
PM MainMenu

At AddJob: press ENTER.

AddJOB: ‡
Add JOB number

Type the **JOB number** (max 8 characters) and then **ENTER** to acknowledge.

_ ‡
Add JOB number

Press **EXIT** three times to leave SET-UP mode.

#### 8.1.1. Using wildcard characters.

If the printer module is equipped with a FLASH chip (yellow label) the use of wild card characters are possible. This feature can be used to make the system to only accept JOB numbers with a certain layout.

The wild card feature supports three different wildcard placeholders.

- ? Accepts any alphanumeric character in this position
- # Accepts any numeric character in this position
- @ Accepts any alphabetic character in this position

Below there are some samples of how to use wildcards.

- ABC### results in ABC123 valid but not ABC1234 or ABC12D
- ??????? 7 signs must be typed
- SE@@@ 6 characters is OK as long as it the 2 first are SE
- #### 4 or 5 figures are OK
- #####

### 8.2. Delete Job number [PM//JobDB/DelJob]

Enter menu [PM//JobDB] by pressing ↓ three times.

PM: ‡
PM MainMenu

At JobDB: press ENTER.

JOBDB: ‡
PM MainMenu

At AddJob: press ↓.

AddJOB: ‡
Add JOB number

At DelJob: press ENTER.

DelJOB: ‡
Delete JOB no

Type the **JOB number** (max 16 characters) and then **ENTER** to acknowledge.

JOB:XXXXX ‡
Up/Down ENTER

Press **EXIT** three times to leave SET-UP mode.

XXXXX ‡
Up/Down ENTER

JOB:XXXXX ‡
Up/Down ENTER

### 8.3. Delete all Job numbers [PM//JobDB/DelAll]

Enter menu [PM//JobDB] by pressing ↓ three times.

```
PM:      ‡
PM MainMenu
```

At JobDB: press ENTER.

```
JOBDB:   ‡
PM MainMenu
```

At AddJob: press ↓.

```
AddJOB:  ‡
Add JOB number
```

At DelJob: press ↓.

```
DelJOB:   ‡
Delete JOB no
```

At DelAll: press ENTER.

```
DelAll:   ‡
Delete all Jobs
```

Type Y or 1 and then ENTER to acknowledge.

```
DelAll:N  ‡
(Y / 1) ENTER
```

Press EXIT three times to leave SET-UP mode.

## 9. Tank database

The tank database in the printer module is contains 8 virtual tanks, each with a separate set of data.

Every time a dispense is made the dispensed volume is subtracted from the volume in the corresponding tank. When the tank is filled the volume filled must be added to the corresponding volume stored in the tank database.

### 9.1. Change name for a tank [PM//TankDB/TankX/Name]

Enter menu [PM//TankDB] by pressing ↓ four times.

```
PM:      ‡
PM MainMenu
```

At TankDB: press ENTER.

```
TankDB:   ‡
PM MainMenu
```

At Tank1: choose the desired tank by scrolling with ↓ or ↑ and then press ENTER to acknowledge.

```
Tank1:    ‡
Up/Down  ENTER
```

At Name: press ENTER.

```
Name:Oil 1  ‡
Oilname
```

Type the name (max 16 characters) and then press ENTER to acknowledge.

```
Oil 1     ‡
Oilname
```

Press EXIT three times to leave SET-UP mode.

```
Name:Olja1  ‡
Oilname
```

**9.2. Change volume in a tank [PM//TankDB/TankX/Vol]**

Enter menu [PM//TankDB] by pressing ↓ four times.

PM: †  
PM MainMenu

At TankDB: press ENTER.

TankDB: †  
PM MainMenu

At **Tank1**: choose the desired tank by scrolling with ↓ or ↑ and then press **ENTER** to acknowledge.

Tank1: †  
Up/Down ENTER

At **Name**: go to **Vol**: by scrolling with ↓ or ↑. The content of the tank is shown.

Name:Oil 1 †  
Oilname

At **Vol**: press **ENTER** to show the cursor.

Vol:1563.50 †  
Volume ??????.??

Type the **new volume** (max 99999.99) and then press **ENTER** to acknowledge.

Vol:1563.50 †  
Volume ??????.??

Press **EXIT** three times to leave SET-UP mode.

Vol:1563.50 †  
Volume ??????.??

**9.3. Change reorder volume for a tank [PM//TankDB/TankX/RVol]**

Enter menu [PM//TankDB] by pressing ↓ four times.

PM: †  
PM MainMenu

At TankDB: press ENTER.

TankDB: †  
PM MainMenu

At **Tank1**: choose the desired tank by scrolling with ↓ or ↑ and then press **ENTER** to acknowledge.

Tank1: †  
Up/Down ENTER

At **Name**: go to **RVol**: by scrolling with ↓ or ↑.

Namn:Oil 1 †  
Oilname

The present value is shown. At **RVol**: press **ENTER** to show the cursor.

BVol:300.00 †  
Reorder volume

Type the **new reorder volume** and then press **ENTER** to acknowledge.

BVol:300.00 †  
Reorder volume

Press **EXIT** three times to leave SET-UP mode.

BVol:300.00 †  
Reorder volume

**9.4. Change stop volume for a tank [PM//TankDB/TankX/SVol]**

Enter menu [PM//TankDB] by pressing ↓ four times.

PM: †  
PM MainMenu

At TankDB: press ENTER.

TankDB: †  
PM MainMenu

At **Tank1**: choose the desired tank by scrolling with ↓ or ↑ and then press **ENTER** to acknowledge.

Tank1: †  
Up/Down ENTER

At **Name**: go to **SVol**: by scrolling with ↓ or ↑.

Name:Oil 1 †  
Oilname

The present value is shown. At **SVol**: press **ENTER** to show the cursor.

SVol:100.00 †  
Stop volume

Type the **new stop volume** and then press **ENTER** to acknowledge.

SVol:100.00 †  
Stop volume

Press **EXIT** three times to leave SET-UP mode.

SVol:100.00 †  
Stop Volume

**9.5. Print tank status [PM//TankDB/Prn]**

Enter menu [PM//TankDB] by pressing ↓ four times.

PM: †  
PM MainMenu

At TankDB: press ENTER.

TankDB: †  
PM MainMenu

At **Tank1**: go to **Prn**: by scrolling with ↓ or ↑ and then press **ENTER** to acknowledge.

Tank1: †  
Up/Down ENTER

At PrnTankDB: press ENTER.

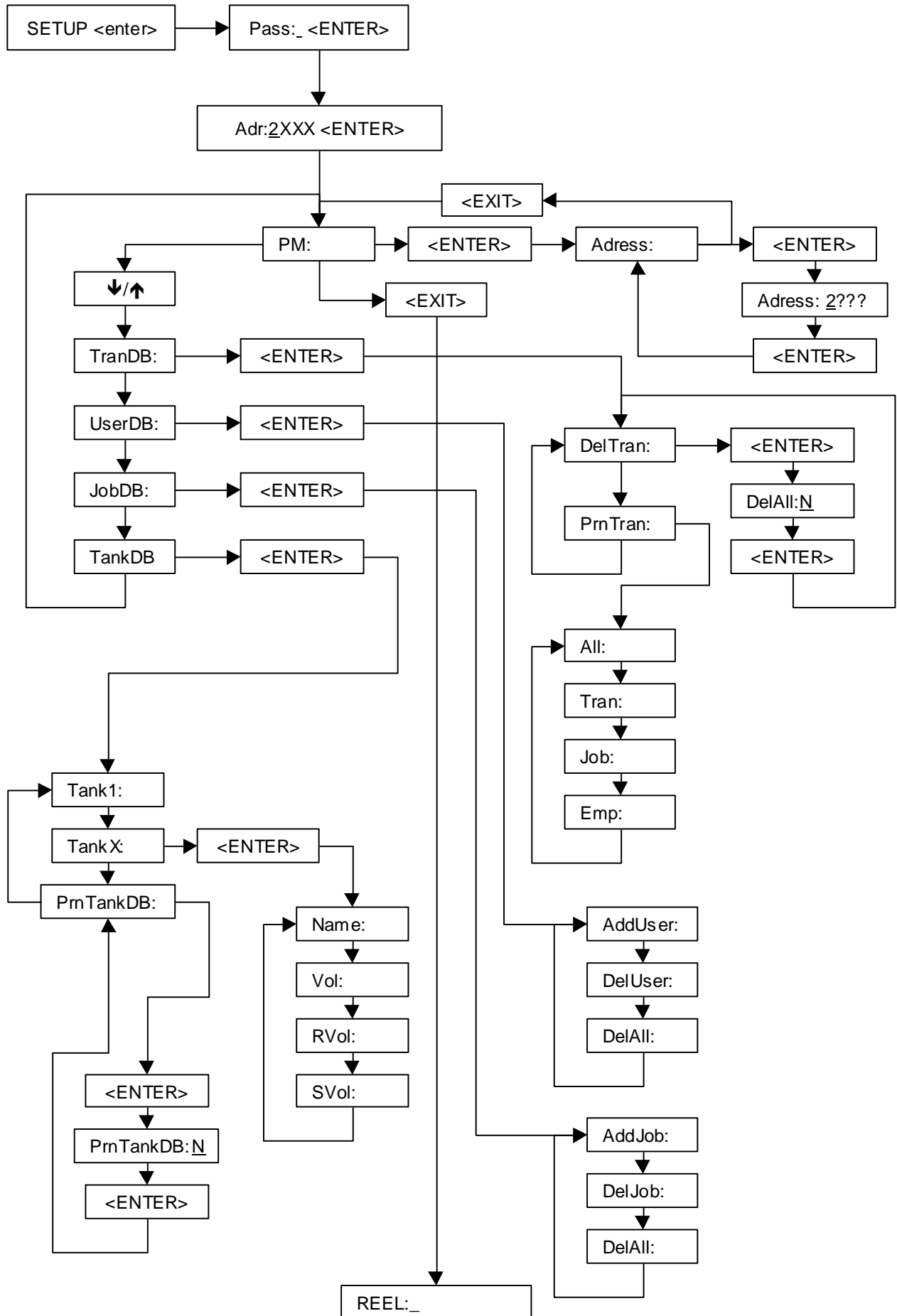
PrnTankDB:N †  
Print TankDB

Type **Y** or **1** and then **ENTER** to acknowledge.

PrnTankDB:N †  
Print TankDB

Press **EXIT** three times to leave SET-UP mode.

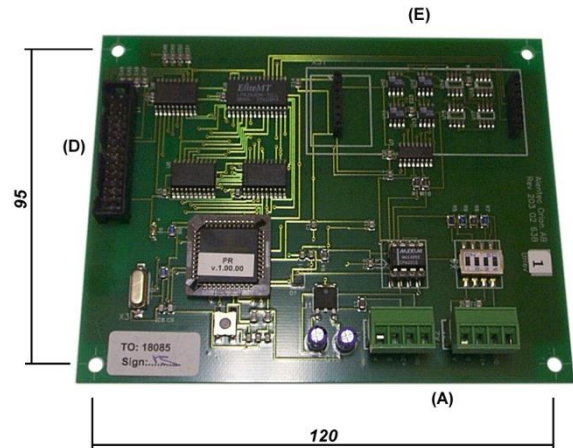
10. Menu tree





## 12. Technical specification

<b>Net ports:</b>	2 pieces of <b>ORILINK®</b> ports (A) for data-communication.
<b>Out ports:</b>	1 piece (D) CENTRONIC for a parallel printer.
<b>Other:</b>	RISC-based microprocessor EEPROM, 64 KB.
<b>Supply voltage:</b>	24 VAC
<b>Max current:</b>	100 mA
<b>Casing:</b>	Strong black powder painted steel box
<b>Outer measures:</b>	23 x 195 x 55 mm.
<b>Mounting:</b>	4 x ø5mm CC = 175 x 140 mm
<b>Weight:</b>	1,6 kg (mounted in steel box)



## 13. PCB placed in a SIO

In a small system or at limited space it is possible to mount a printer / database module PCB in a SIO. To do this the SIO PCB has to be moved and turned one quarter of a turn, see below:

Make sure the power is turned off.

Turn the SIO PCB a quarter of a turn and place it to the left in the box. Move the plastic distances to the holes that make it possible to place the PCB as shown in the picture to the left. Do not damage the cabling.

SIO standard



SIO moved



SIO+PM



## 14. Clock module (CM) mounted on PM

An OriLink® system can be fitted with a real-time clock (CM) to keep track of date and time. The CM can be mounted either on a PM or a LED in which case it will work as a global clock for the entire system.

**NOTE! It is very important to install only one CM in the system**

The CM is mounted on a PM by pressing the pins into the corresponding connector on the PM, see below.

Make sure the pins on the bottom are aligned before pressing. The pins can be bent slightly if needed.



Date and time are then set with a Keypad. See the KP manual.