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|--|--|----------------------------|
|  SAMSON <small>Samson Corp. Swannanoa, NC-USA</small> | RFX Keypad | |
| | Parts and Technical Service guide Guía de servicio técnico y recambio Guide d'instructions et pièces de rechange | Ref.: Model 2190 |

Description/ Descripción/ Description

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The Samson RFX is designed to control and monitor the consumption and inventory balances of automotive fluid products with minimal installation and programming costs. The wall mounted keypad module consists of a 12-button keypad, LCD display and integral ticket printer. The RFX keypad can control up to 48 meters and track 8 different fluids and tanks. It is capable of sending and receiving data typically up to 300 feet in a service facility installation. A unique, patented feature of the control system is that the dispense trigger of the RFX Meter is locked until authorization from the keypad is received. After the dispense is completed, the user can top off the dispense and the actual amount used is sent back to the keypad and this meter returns to the locked status. Additionally, the meter can be installed on portable dolly systems offering control and monitoring of often high-cost lubrication products. Up to 50 operators can be defined with their own unique PIN number for accessing the system. The system provides dispense reports by operator, fluid type, meter or tank. This allows for flexibility in reviewing system activity.



Operation/ Modo de empleo/ Mode d'emploi

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The operator enters his PIN number and selects the hose that the fluid is to be dispensed from. The operator then enters the required quantity and presses ENTER to confirm. The meter is then authorized to automatically dispense and shut off when the authorized amount of fluid is dispensed. The operator may then top off the vehicle for the proper fill, if necessary. The operator may allow the meter to "time out" or may depress "Reset" which sends all actual dispense data back to the keypad and puts the meter into a secure "Locked" status until the next authorized dispense work order is received from the keypad. After each dispense, a transaction ticket is printed showing the fluid and quantity dispensed along with the operator's name.

Installation and Configuration

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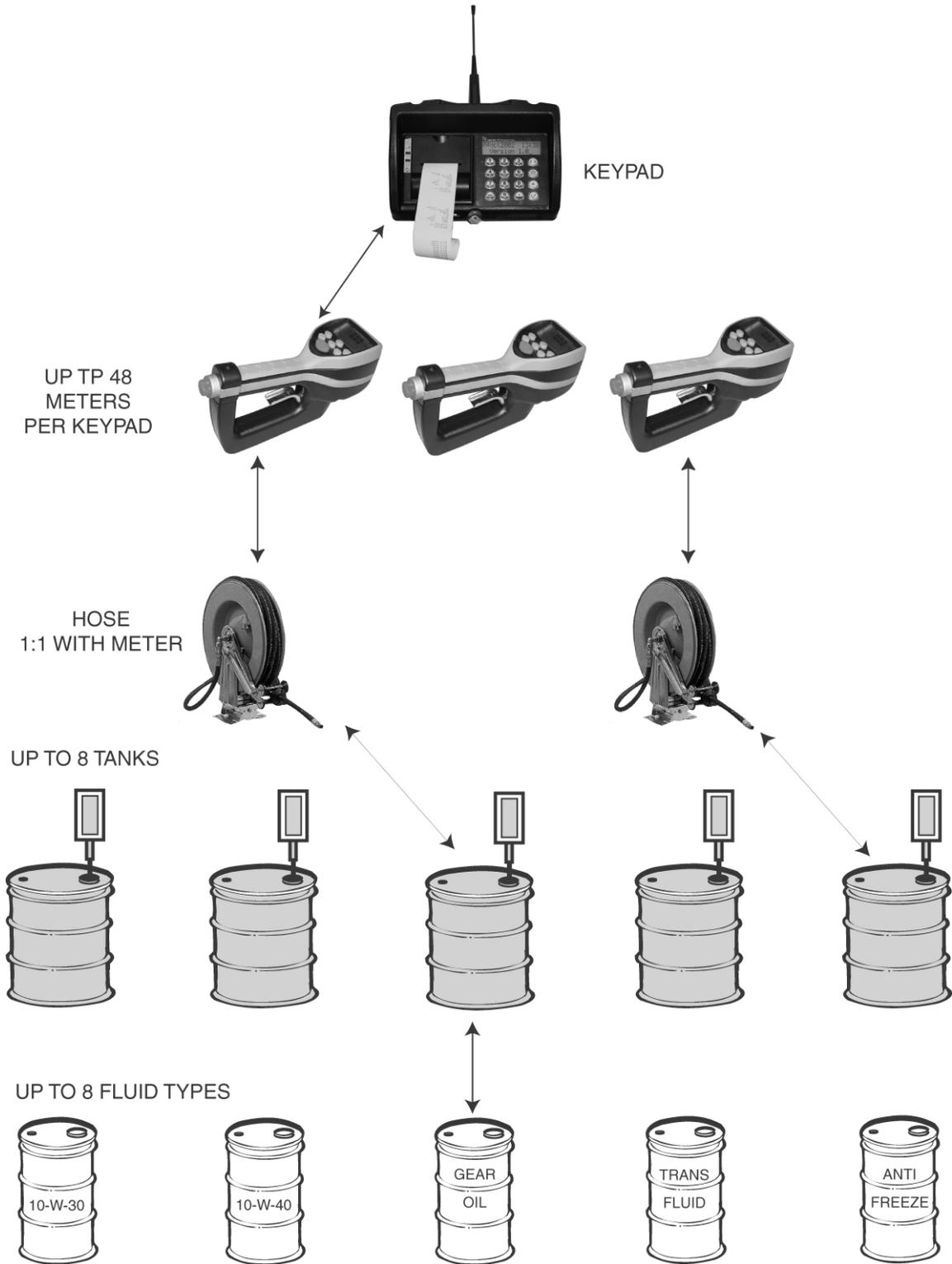
Mount the keypad to the wall either inside the shop on a wall facing the shop. In either case mount the included remote antenna INSIDE the shop up high on the wall with line of sight to all the meters.

Range is 300 feet unobstructed, be sure to test the keypad/antenna mounting position with a 2188 meter at all positions in the shop, and try to simulate a 'worst case scenario' with vehicle obstructions during testing. Performing this important step will ensure trouble-free service for the End User and no callbacks for the Installer.

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PICTORAL DIAGRAM OF RFX LOGICAL SET-UP



FCC ID: GIF-RFKEYPAD
FCC CERTIFIED, PART 15, SUBPART C

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



Keyboard Description:



Scroll Key: Used to select options on active display



Home Key: Pressing this key will return display to the PIN Number and Time/Date screens



Backspace Key: Used to backspace when entering data



Enter Key: Used to enter data and move to the next screen



Space Key: Used to enter a space character when entering data

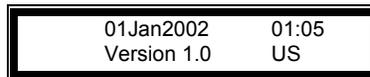


Alphanumeric Keys: Used to enter data on display. Hold down key until the desired character is on display. Then release the key.

Default Screens:

- The Personal Identification Number (PIN) number is 4 numeric digits
- 1 supervisor account
- Maximum of 50 operators
- The supervisor account has access to the management screens (initialization, configuration, communication, report, external printer and internal printer reports)
- The operator account only has access to the dispense order screens

At power up, the following screens will be displayed:



This screen is displayed for system information only.

It is displayed during 1 seconds every 5 seconds. The 4 other seconds the Enter Pin No. Screen will be displayed.



Active keys:

Numeric keys,  

Supervisor Menu:

To access the management menu, enter the Supervisor PIN Number.

The Supervisor PIN is 4 numeric digits; default is 0000 at initial power-up.

Management Menu: The management menu displays after entering the supervisor PIN Number



Active keys:

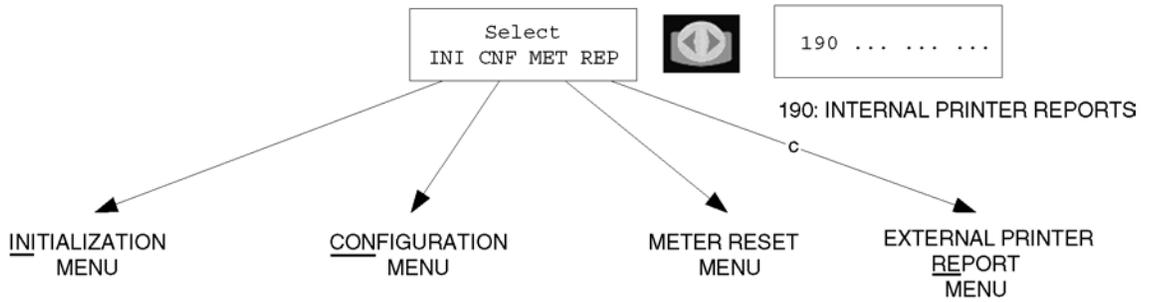


Action:

- Choose which menu option is desired

Screens in INI can be accessed only when the Dispense Order list is empty. If the supervisor wants to change one of these parameters whereas the list is not empty, a screen message will be displayed. The supervisor must clear all transaction records through the CNF menu prior to entering the INI (initialization) menu.

For screens with multiple choices, the selection is in **inverse** video. (i.e. The selection is green on black.)



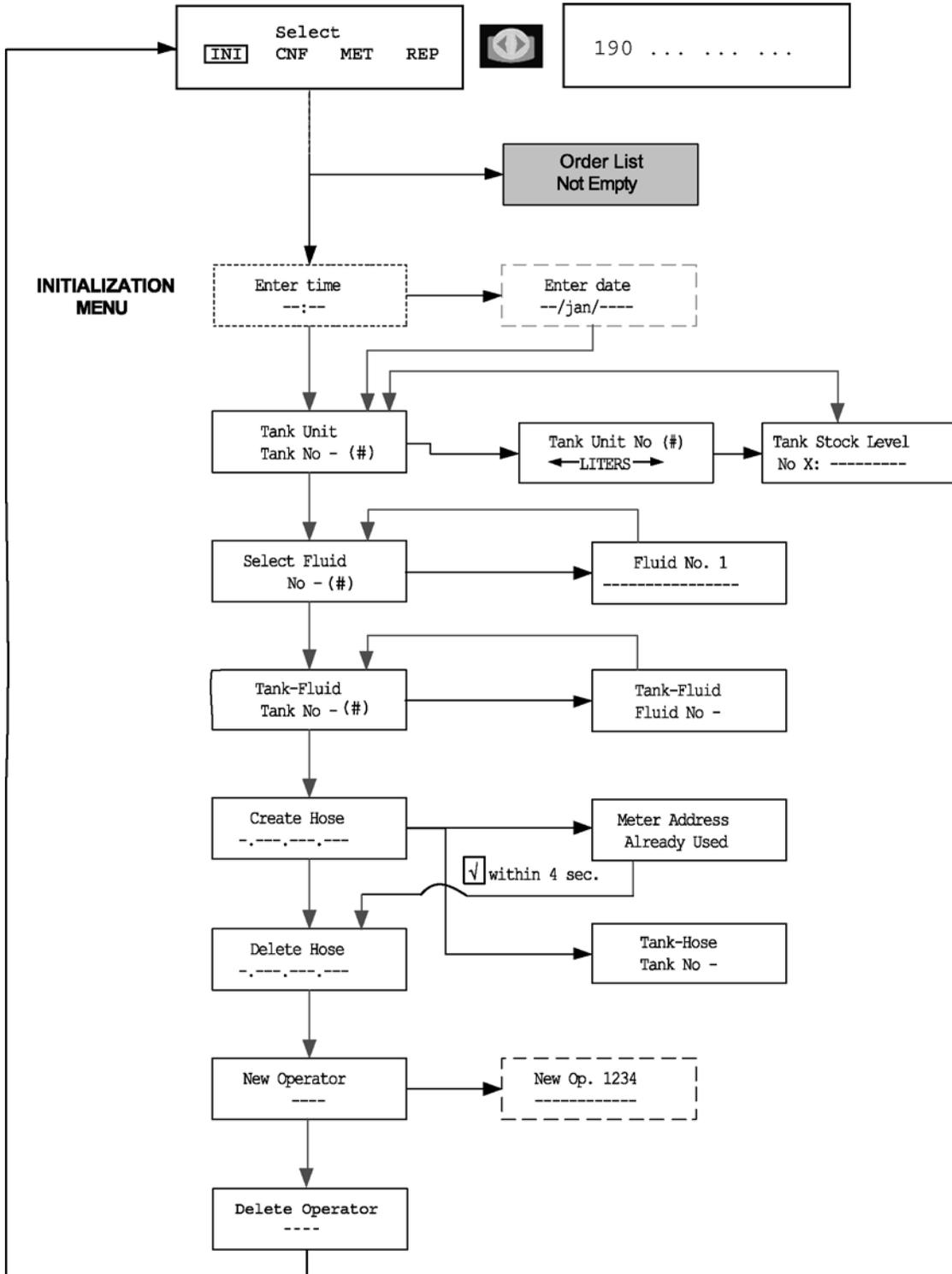
The scroll key is used to select an answer (Example Yes – No). The selection is in inverse video, it is validated with the ENTER key.

To go to the desired menu, move the scroll key to your choice and press the ENTER key

Initialization Menu: Flow Chart

⚡ The parameter changes will affect all data in memory (example: if we change the quantity unit from liters to gallons, the general quantity will be simply switched from liters to gallons (no conversion from the previous quantity unit to the new quantity unit))

⚡ No pending dispense order



Initialization Menu Screens (INI):

- System date and time are initially blank
- System time is in military standard
- System date is in format DD/MMM/YYYY (in English)
- To change month, press  to increment month

Enter Time:

Enter Time
--:--

Active keys:

Numeric keys, , , 

Action:

- Enter key with no entry → Jumps to TANK UNIT screen
- If the time/date are already entered into the system, press enter with no date to move to the next screens.

Enter time by using the numeric keys to set a 24-hour military time of day.

Press  when finished to move to the next initialization screen.

- Enter Date:

Enter Date
--/jan/----

Active keys:

Numeric keys, , , , 

Action: Date is changed and tank unit screen is displayed.

Enter date by first entering the two digit day of the month. The cursor will automatically jump to the month. Use  to select month, then enter a four-digit year.

After date is set, press  to move to the next initialization screen.

Tank Initialization:

The tank screens are used to set up the tanks in the system. Each tank is assigned a number and a starting quantity level in the desired unit of measure. The following is the process for installing a tank:

- Maximum of 8 Tanks
- Tank ID's are numbered 1 thru 8
- Tank unit of measure can be quarts, liters, pints or gallons
- By default, the unit of measure is liters
- Set the dispensing unit of measure to the proper value
- The tank stock level setting is updated after each dispense from the associated tank.
- The tank stock level quantity setting Format is 5.3 digits (99999.999)
- The remaining tank stock level quantity will be printed out to the nearest whole number after each dispense on the ticket.
- The Supervisor may update the tank stock level quantity setting at any time by entering these screens to change stock levels

| |
|------------------------|
| Tank Unit Tank No - |
|------------------------|

Active keys:

Numeric keys, , , 

Action:

- Enter key with no entry jumps to Fluids Screens

Enter a numeric value from 1 to 8 and press 

| |
|---------------------|
| Tank Unit LITERS |
|---------------------|

Active keys:

Numeric keys, , , , 

Use  to select between LITERS, GALLONS, PINTS, QUARTS and REMOVE (REMOVE option will delete the tank from the system.)

Press  to move to the next screen.

Tank Stock Level
No X: -----

Active keys:

Numeric keys, , , 

Use the numeric keys to enter a stock level from 00000.000 to 99999.999.

Press  to move to next screen.

Alphanumeric keys are validated only for some of the display menus. In these menus to enter a letter just hold the related key and the letters scroll. Then release the key when the letter you want is displayed.

Fluid Initialization:

This screen is used to set initial tank stock level or when ever supplier delivers fluid. The fluid screens allow the supervisor to set the fluid names used in the system. The parameters are:

- Maximum of 8 Fluid types
- The fluid type ID number ranges from 1 to 8
- The fluid type name is a 16 alphanumeric string
- Initially, the fluid type name is blank

Select Fluid
No -

Active keys:

Numeric keys, , , 

Action:

- Enter key with no entry → moves to Tank/Fluid relationship screen

Fluid No. 1

Active keys:

Alphanumeric keys, , , 

Tank-Fluid Relationship Screens:

The relationship between tank id and fluid type id will be 1:1 (one tank assigned to one fluid type id). For example, the supervisor may associate tank #1 with fluid #1 or tank #1 with fluid #2. Each tank must be associated with one and only one fluid type.

| |
|-------------------------|
| Tank-Fluid Tank No - |
|-------------------------|

Active keys:

Numeric keys, , , 

Action:

- Enter key with no entry → moves to Create Hose screens

| |
|--------------------------|
| Tank-Fluid Fluid No - |
|--------------------------|

Active keys:

Numeric keys, , , 

The user must enter a valid number for a fluid in the system. Pressing enter after a valid fluid number will bring the Tank-Fluid Tank No-, screen.

Adding and Deleting RF Meters: (Meter and Hose are synonymous)

This set of screens allows the Supervisor to add or delete RF Meters from the keypad system.

- The RF Meter identification number can be found on the RF Meter under the battery pack
- The RF Meter identification number format is 10 decimal digits (-.---.---.---)
- Leading zeros must be entered

x.xxx.xxx.xxx

- RF Meters can be added and deleted
- Maximum of 48 RF Meters
- A given keypad can exchange data only with RF Meters whose identification number is in this list.
- All RF Meters addresses and ids are unique
- The relationship between tank and RF Meter will be 1:n (one tank assigned to n RF Meters). Since there will be a relationship between tank and fluid type, the RF Meter will be assigned to one fluid type.
- Initially the RF Meter address list is empty

Create Hose
-.-.-.-.-

Active keys:

Numeric keys, , , 

Action:

- After validated RF Meter address is entered the tank-hose screen is displayed
- Enter key with no entry → moves to Delete Hose screen
- If RF Meter address already used Hose Address Already Used Screen is displayed

Hose Address
Already Used

Active keys:

There is no active key.

This screen is displayed if another RF Meter already uses the last three number of the RF Meter.

If this screen displays check RF Meters in system to make sure duplicate RF Meters do not exist, then check to see if this RF Meter has already been created in the system.

It is displayed for 3 seconds and it comes back to create hose screen.

No Action

The relationship between tank and RF Meter will be 1:n (one tank assigned to n meters). Since there will be a relationship between tank and fluid type, the RF Meter will be assigned to one fluid type. Assign the RF Meter to the tank in which it is connected.

| |
|------------------------|
| Tank-Hose Tank No - |
|------------------------|

Active keys:

Numeric keys, , , 

Action: Create hose screen is displayed

| |
|---------------|
| Hose ID -- |
|---------------|

The system will automatically insert the created hose into the next available slot (1-48) in the system. The user has the option to change this hose number to any number (1-48) not currently in use.

Note: The Hose ID is the number used to create dispense orders for the meter by the operator.

The supervisor has the option to delete a hose/RF Meter through this screen. This is necessary when there is a change to the system; whereby, a RF Meter needs replacement for any reason.

The supervisor should delete from the keypad the removed RF Meter prior to creating the new RF Meter. This will put the new RF Meter in the same logical position with the keypad and the dispense order process will remain the same.

| |
|----------------------|
| Delete Hose ----- |
|----------------------|

Active keys:

Numeric keys, , , 

Action:

- If a RF Meter is deleted, the Delete Hose screen is displayed
- Enter key with no entry → Create Operator screen is displayed

Adding and Deleting Operators:

- Only an operator with valid PIN can dispense fluid
- A Maximum of 50 operators may be active in the system at a time
- The operator id (PIN number) format is 4 numeric digits
- The operator name format is 16 alphanumeric digits
- Initially, the operator list is empty

New operator

Active keys:

Numeric keys,   

Action:

- If a new operator has been added, the Operator name screen is displayed
- Enter key with no entry → Delete Operator screen is displayed

Operator XXXX

Active keys:

Alphanumeric keys,   

Action:

- The New operator screen is displayed
- Enter the operator's name using the keypad and then press enter to add.

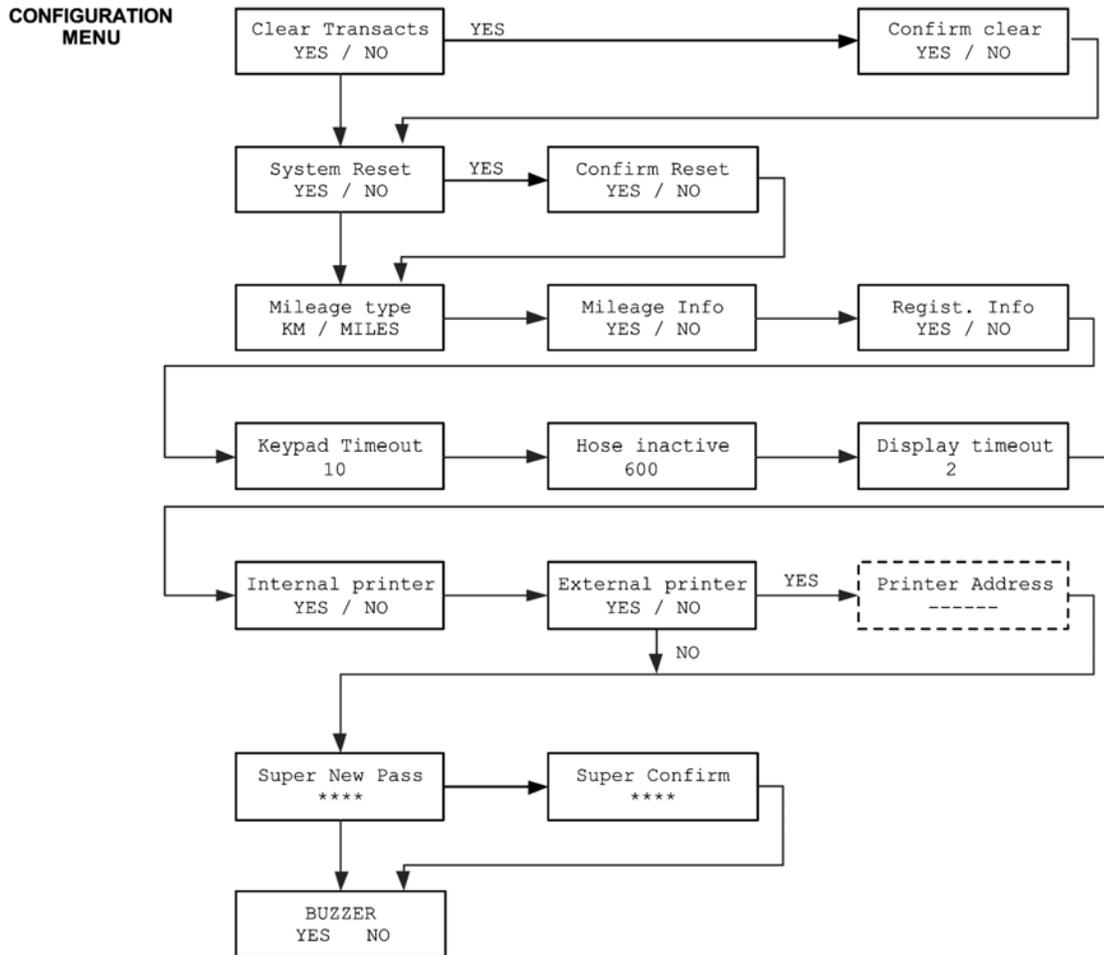
To delete an operator, enter the four-digit id number for the operator to be deleted and press enter.

Delete operator

Active keys:

Numeric keys,   

Configuration Menu Flowchart:

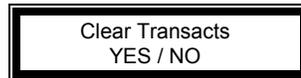


Configuration Menu: (CNF)

The Configuration Menu allows the supervisor to set-up all parameters for the Keypad Operation. The Supervisor is the only user with access to these screens.

Clearing Transactions from Keypad Memory:

- Removes all transactions (Dispense Orders) previously recorded in memory
- Clear transactions will erase WO results data, Data will be cleared confirmation.



Active keys:

The selection is in reverse video



Use the scroll key to select between YES/NO.



Active keys:

The selection is in reverse video



Action: The keypad will automatically return to the Clear Transacts screen on YES or NO confirmation

System Reset:

Allows the user to reset all the configuration parameters to default values:



Active keys:



Action:

- If yes, the keypad asks the user to confirm
- If no, the keypad displays the mileage type screen



Active keys:

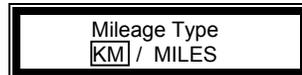


Action: The keypad returns to the System Reset screen

Mileage Type:

Allows the user to select how mileage is stored in the keypad

- KM/MILES
- The mileage type by default is KM.



Active keys:



Action:

- Press enter key to move to Mileage Info screen

Mileage and Registration Information Option:

Allows the supervisor to select the storage of vehicle mileage and registration information for each dispense order.

- 16 numeric digit field
- YES/NO to the option of entering the vehicle mileage information for each dispense order
- Mileage information by default is NO

| |
|---|
| Mileage Info YES / <input type="checkbox"/> NO |
|---|

Active keys:



Action: Use the scroll key to select YES/NO, press enter key to move to the Registration option screen

- 16 numeric digit field
- YES/NO to the option of entering the vehicle registration information for each dispense order
- Registration information by default is NO

| |
|---|
| Regist. Info YES / <input type="checkbox"/> NO |
|---|

Active keys:



Action: Use the scroll key to select YES/NO, press enter key to move to the keypad timeout screen

Keypad Timeout Option:

- Timeout parameter corresponding to the time it takes to validate after all dispense order data has been entered. If the enter button is not pressed within the time allocated, the keypad display goes back to the initial menu, and the input data is erased.
- The keypad timeout is between 0 to 255 seconds (0 no timeout) and the default for this feature is **10** seconds



Active keys:

Numeric keys,

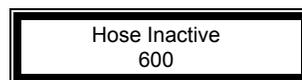


Action:

- Press Enter key to move to Hose Inactive Timeout Option

Hose Inactive Timeout Option:

- Essentially, this is the time the user has to top-off the dispense and completing the automatic batch.
- Timeout parameter corresponding to the time that a RF Meter could stay inactive after the reset key has been pressed on the meter.
- If the user has not pressed reset on the RF Meter within the timeout period, the RF Meter will transmit the dispense order quantity to the keypad and lockout the RF Meter.
- Meter inactive timeout is sent to the RF meter. It's the meter (ER) that is responsible of tracking this timer.
- The meter inactive timeout is set for all RF Meters.
- The meter inactive timeout is between 0 to 65534 seconds (0 = no timeout) and the default value is 10 minutes.



Active keys:

Numeric keys,



Action:

- Press Enter key to move to Display Timeout Option

Display Timeout Option: (Do Not Change)

- Timeout parameter corresponding to the time for displaying information on the keypad LCD before it is refreshed with new information
- The display timeout is set at 2 seconds



Active keys:

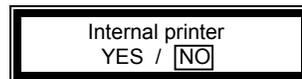
Numeric keys, , , 

Action:

- Press Enter key to move to Internal Printer Option

Internal Printer Option:

- YES / NO. Parameter indicating the existence of an internal printer (CUSTOM FT190).
- The internal printer value is set by default NO (⚡ The keypad will not detect the existence of a printer)



Active keys:

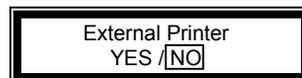


Action:

- Use scroll key to select the internal printer setting
- Press Enter key to select the internal printer setting and move to External Printer Option

External Printer Option:

- YES / NO. Parameter indicating the existence of an external printer (EPSON LX300).
- The external printer value is set by default NO



Active keys:



Action:

- Use scroll key to select the external printer setting
- Press Enter key to move to select the external printer setting and Supervisor Password Option

Supervisor Password Option:

The default supervisor password for protecting the modification of the supervisor id is 0000.

The Supervisor can change this password during the initial set-up of the system.

Maximum of 1 Supervisor login password



Active keys:

Numeric keys, , , 

Action:

- Use numeric keys to enter the new password then press enter.
- Enter key with no entry → No change to password and displays buzzer option.



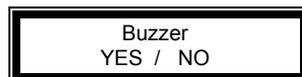
Active keys:

Numeric keys, , , 

Action: reenter new password to confirm.

Buzzer Option:

This screen provides the user with the option to have a beep on every key entry. The default is YES.



Active keys:



Action: Select YES or NO by using the scroll key, then press Enter. The keypad will display the Supervisor Menu.

Meter Reset Menu (MET):

- Only the supervisor has access to this process.
- The supervisor may delete a dispense order in the keypad que for a single hose or all hoses in the system.
- If the supervisor selects all RF Meters, all dispense orders in the que will be deleted and all meters may be programmed for a dispense order.

Init all Hose
YES / NO

Active keys:



Action:

- If YES → Start (Hoses Init) is displayed
- If NO → User is prompted for a hose number to reset

Start Hoses Init
Press enter

- Press ENTER to reset the hose

Meter Reset Menu Flowchart:



Report Menu Screens: (REP)

The supervisor has the opportunity to print out a variety of reports, if there is an external printer connected to the keypad.

INI: Prints all parameters associated with the system initialization

CNF: Prints all parameters selected for the configuration of the keypad

MET: Prints the status of all hoses/meters

REP: Prints the dispense order history

The external printer has to be activated and connected.

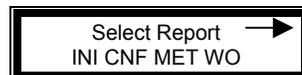
⚡ When the keypad is printing out a report or a receipt, the keypad keyboard will be locked for all new data entry (i.e. the operator will not be able to enter a new Dispense Order List while the keypad is printing).

⚡ If the keypad detects an error on the internal printer or the external printer (not connected, out of paper or off line), the keypad keyboard will be locked for all new data entry and an error will displayed on the keypad LCD. The user should check the printers for off-line or out of paper conditions.

⚡ If an error is detected while printing, the keypad will not purge the memory (especially in the case of the Dispense Order List report)

⚡ After printing out the Dispense Order List report, the Dispense Order list memory is erased automatically

The dispense order receipt is automatically (after a user prompt message) printed out after the RF reception of the dispense order result



Active keys:



Action:

- Use the scroll key to select report option
- Enter key with no entry → keypad returns to Supervisor Menu screen

Initialization Report:

| DD/MMM/YYYY INITIALIZATION REPORT | | | | HH:MI |
|-----------------------------------|--------------|------------|--------|-------|
| TNK | PRODUCT | LEVEL | UNT | |
| 1 | Fluid 1 name | 99999 | LITERS | |
| 2 | Fluid 2 name | 99999 | LITERS | |
| (...) | (...) | (...) | (...) | |
| 7 | Fluid 7 name | 99999 | LITERS | |
| 8 | Fluid 8 name | 99999 | LITERS | |
| ID | ADDR | TNK | | |
| 123 | 124456 | 1 | | |
| 234 | 561444 | 2 | | |
| (...) | (...) | (...) | | |
| ID | PIN | NAME | | |
| 1 | 1234 | John SMITH | | |
| 2 | 1235 | Paul GREEN | | |
| 3 | 1236 | Mike BROWN | | |
| (...) | (...) | (...) | | |
| ID | PRODUCT | | | |
| 1 | Fluid 1 name | | | |
| 2 | Fluid 2 name | | | |
| (...) | (...) | | | |
| 7 | Fluid 7 name | | | |
| 8 | Fluid 8 name | | | |

| | |
|-------------|---|
| DD/MMM/YYYY | Date of the printout |
| HH:MI | Time of the printout |
| TNK | Tank No |
| PRODUCT | Fluid type name |
| QTY | Quantity dispensed |
| UNT | Unit |
| ADDR | Meter RF address |
| ID | RF Meter Id (Last 3 address characters) |
| TNK | Tank No |
| PIN | User pin number |
| NAME | User name |

Configuration Report:

| DD/MMM/YYYY | CONFIGURATION REPORT | HH:MI |
|-------------------|----------------------|--------|
| Mileage Type | | KM |
| Registration Info | | NO |
| Mileage Info | | NO |
| Internal printer | | Yes |
| External printer | | Yes |
| Address printer | | |
| Buzzer | | Yes |
| Approved PTB | | NO |
| Supervisor pass | | 1234 |
| Hose Inactive | | 600 |
| Keypad Timeout | | 10 |
| Display Timeout | | 2 |
| On-Off sequence | | 999999 |

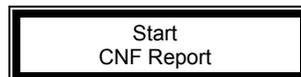


Active keys:



Action:

- Use scroll key to move to CNF and press Enter key
- Enter key with no entry → Supervisor Menu screen is displayed



Active keys:



Action: After Report is completed the Select Report screen is displayed

Communications Report:

| DD/MMM/YYYY | COMMUNICATION REPORT | HH:MI |
|---------------|----------------------|----------|
| ADDR | ID | STA |
| ===== | ===== | ===== |
| 0.000.000.101 | 1 | inactive |
| 0.000.000.137 | 2 | inactive |
| 0.000.000.111 | 3 | inactive |
| 0.000.000.126 | 4 | inactive |
| 0.000.000.127 | 5 | inactive |
| 0.000.000.109 | 6 | inactive |
| 0.000.000.100 | 7 | inactive |
| 0.000.000.135 | 8 | inactive |

DD/MMM/YYYY Date of the printout
HH:MI Time of the printout
ADDR Meter RF address
ID RF Meter Id (Last 3 address characters)
STA Status of the RF link:

- OK → RF link is established
- KO → RF link not established
- ? → RF link doubtful

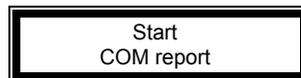


Active keys:



Action:

- Use scroll to move to COM and press Enter
- Enter key with no entry → Supervisor Menu screen is displayed



Active keys:



Action: After printing Select Report Menu is displayed

Dispense Order Reports:



Active keys:



Action:

- Scroll to WO and press Enter key
- Enter key with no entry → Supervisor Menu screen is displayed



Active keys:



Action: Scroll to report to print and press the Enter key

There are four reports that may be printed associated with Dispense Orders:

- USR: Print dispense orders by Operator
- PRO: Print dispense orders by Fluid Type
- HOS: Print dispense orders by Hose/Meter
- TNK: Print dispense orders by Tank

User Report (USR):

| DD/MMM/YYYY STATISTICAL REPORT BY USER HH:MI | | | |
|--|--------------|-------|--|
| USER | PRODUCT | QTY | |
| ===== | ===== | ===== | |
| JOHN SMITH | FLUID TYPE 1 | 99999 | |
| | FLUID TYPE 2 | 99999 | |
| | FLUID TYPE 3 | 99999 | |
| | FLUID TYPE 4 | 99999 | |
| PAUL GREEN | FLUID TYPE 5 | 99999 | |
| | FLUID TYPE 6 | 99999 | |
| | FLUID TYPE 7 | 99999 | |
| | FLUID TYPE 8 | 99999 | |
| (...) | | | |



Active keys:



Action: After printing the Select Report Screen is displayed

Product Report (PRO):

| DD/MMM/YYYY STATISTICAL REPORT BY PRODUCT HH:MI | | | |
|---|------------|-------|--|
| PRODUCT | USER | QTY | |
| ===== | ===== | ===== | |
| FLUID TYPE 1 | JOHN SMITH | 99999 | |
| | PAUL GREEN | 99999 | |
| FLUID TYPE 2 | JOHN SMITH | 99999 | |
| | PAUL GREEN | 99999 | |
| FLUID TYPE 3 | JOHN SMITH | 99999 | |
| | PAUL GREEN | 99999 | |
| (...) | | | |

Start
Report

Active keys:



Action: After printing the Select Report Screen is displayed

Hose/Meter Report (HOS):

| DD/MMM/YYYY STATISTICAL REPORT BY RF METER HH:MI | | | | |
|--|------|------------|-------|--|
| ADDR | ID | USER | QTY | |
| ===== | ==== | ===== | ===== | |
| 123456 | 456 | JOHN SMITH | 99999 | |
| | | PAUL GREEN | 99999 | |
| 234561 | 561 | JOHN SMITH | 99999 | |
| | | PAUL GREEN | 99999 | |
| (...) | | | | |

Start
Report

Active keys:



Action: After printing the Select Report Screen is displayed

Tank Report (TNK):

| DD/MMM/YYYY STATISTICAL REPORT TANK LEVEL HH:MI | | | |
|---|-----------------|-------|---------|
| TNK | PRODUCT | LEVEL | UNT |
| 1 | 5W30 OIL | 123 | LITERS |
| 2 | GEAR OIL | 1111 | LITERS |
| 3 | ATF 111 | 11111 | GALLONS |
| 4 | HYDRAULIC FLUID | 232 | QUARTS |
| 5 | 10W40 OIL | 3466 | PINTS |
| 6 | WASHER FLUID | 1 | LITERS |
| 7 | 5W40 OIL | 2344 | LITERS |
| 8 | BEER | 43234 | PINTS |

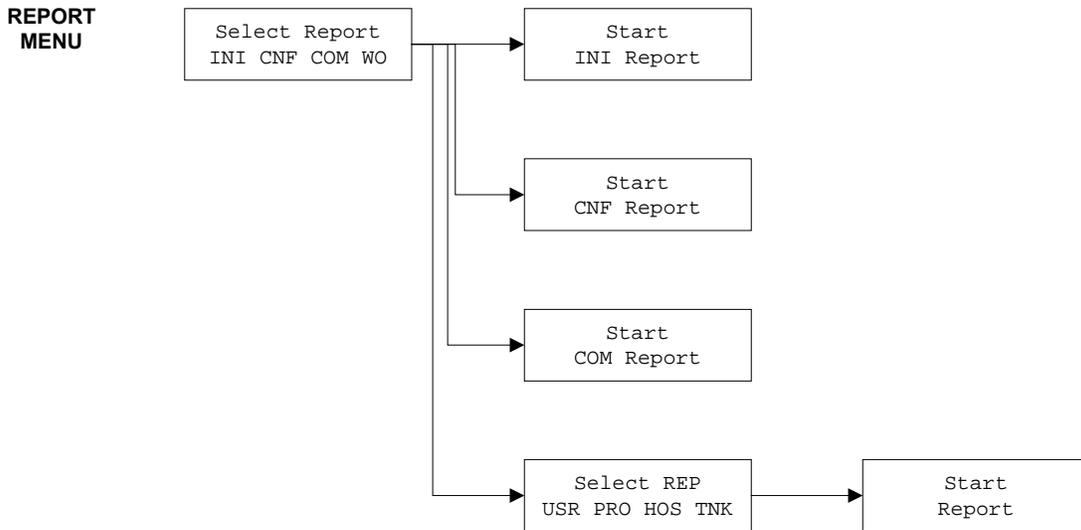
Start Report

Active keys:



Action: After printing the Select Report Screen is displayed

Report Menu Flowchart



Internal Printer Reports:

- FLU:** Prints all fluids created in the system
- HDS:** Prints all hose numbers with meter serial numbers
- TNK:** Prints all tanks created in the system
- USE:** Prints all operators created in the system
- WO:** Prints all work orders pending
- PEN:** Prints the current meter status

“INACTIVE”: Hose is ready

“ACTIVE”: A dispense order is pending

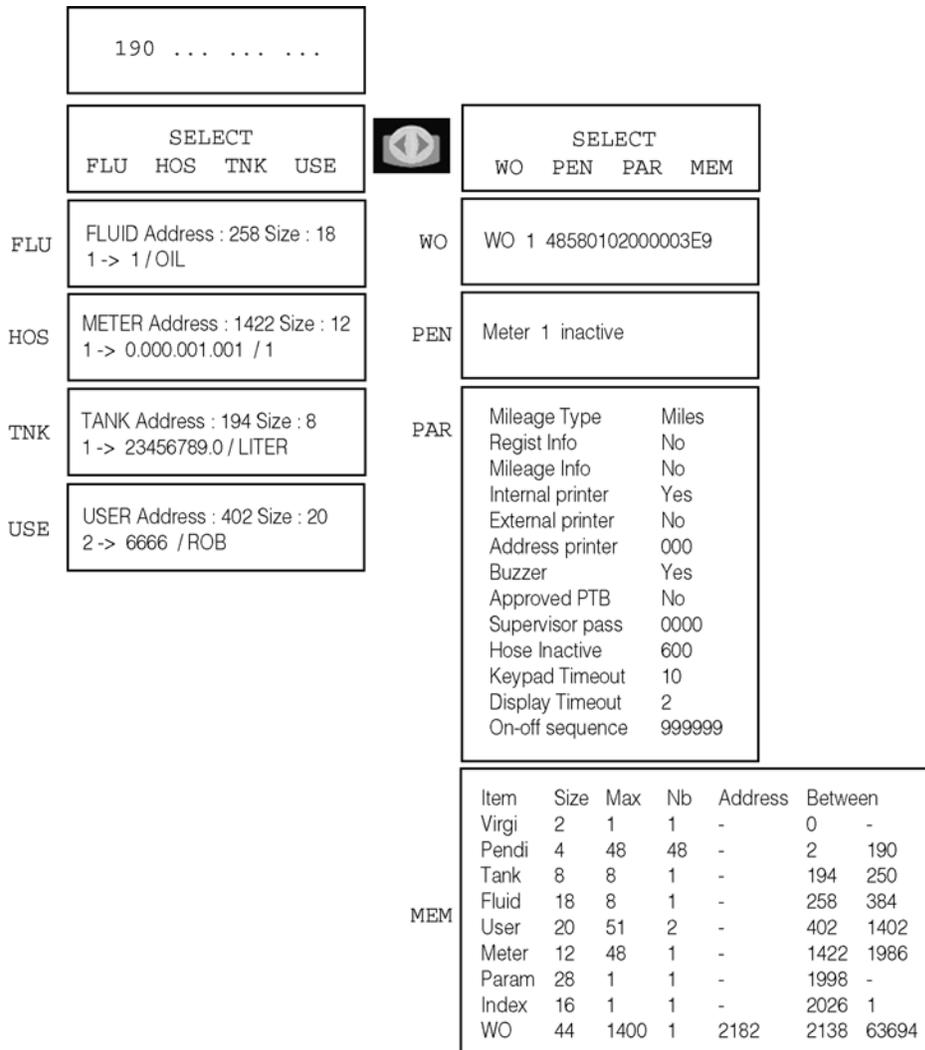
“UNREACHABLE”: Hose is not ready

- Hit reset button on meter to begin communications test and reset meter.

PAR: Prints the current setting in configuration menu

MEM: Prints the memory configuration for system

NOTE: It is recommended that the supervisor print all internal reports and store hard copies after setting up the system.



Fluid Type Definitions

| Fluid id | Name |
|-----------------|-------------|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| 7 | |
| 8 | |

Maximum Fluid types is 8

The Fluid name can be 16 characters in length

Tank Definitions

| Tank id | Tank Level | Tank Capacity |
|---------|------------|---------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |

Maximum of 8 Tanks

The Tank Capacity value is formatted 00000.000

Hose/Meter Definitions

| Hose/Meter id | Address Number x.xxx.xxx.xxx |
|---------------|------------------------------|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| 7 | |
| 8 | |
| 9 | |
| 10 | |
| 11 | |
| 12 | |
| 13 | |
| 14 | |
| 15 | |
| 16 | |
| 17 | |
| 18 | |
| 19 | |
| 20 | |
| 21 | |
| 22 | |
| 23 | |
| 24 | |

Maximum of 48 Hose/Meters

Hose/Meters address is a 10 digit number

Address Data Format is x.xxx.xxx.xxx

Hose/Meter Definitions

| Hose/Meter id | Address Number x.xxx.xxx.xxx |
|---------------|------------------------------|
| 25 | |
| 26 | |
| 27 | |
| 28 | |
| 29 | |
| 30 | |
| 31 | |
| 32 | |
| 33 | |
| 34 | |
| 35 | |
| 36 | |
| 37 | |
| 38 | |
| 39 | |
| 40 | |
| 41 | |
| 42 | |
| 43 | |
| 44 | |
| 45 | |
| 46 | |
| 47 | |
| 48 | |

Maximum of 48 Hose/Meters

Hose/Meters address is a 10 digit number

Address Data Format is x.xxx.xxx.xxx

User Definitions

| User id | User Name | Pin id |
|---------|---------------------|--------|
| 1 | Reserved Supervisor | 0000 |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |
| 11 | | |
| 12 | | |
| 13 | | |
| 14 | | |
| 15 | | |
| 16 | | |
| 17 | | |
| 18 | | |
| 19 | | |
| 20 | | |
| 21 | | |
| 22 | | |
| 23 | | |
| 24 | | |
| 25 | | |

The User Name is up to 16 characters

The User Pin id is a 4 digit number with leading 0's required

User Definitions

| User id | User Name | Pin id |
|---------|-----------|--------|
| 26 | | |
| 27 | | |
| 28 | | |
| 29 | | |
| 30 | | |
| 31 | | |
| 32 | | |
| 33 | | |
| 34 | | |
| 35 | | |
| 36 | | |
| 37 | | |
| 38 | | |
| 39 | | |
| 40 | | |
| 41 | | |
| 42 | | |
| 43 | | |
| 44 | | |
| 45 | | |
| 46 | | |
| 47 | | |
| 48 | | |
| 49 | | |
| 50 | | |

The User Name is up to 16 characters

The User Pin id is a 4 digit number with leading 0's required

Maximum of 50 users



Keypad
(1 per system)



Meter # (2 Digits) ____ ____
(Up to 48 meters/keypad)

Unique Meter Serial # ____ - ____ ____ - ____ ____ ____
(10 Digits)



Hose # ____ ____



Tank # (1 Digit) ____
(Up to 8/keypad)
1:Hose



Fluid Type (16 Digits) ____ ____ ____ ____ ____ ____ ____ ____
Description
1:Tank
(Up to 8/keypad)