

Compact Oilwatch

Workshop Technicians Keypad User Manual



Compact Oilwatch

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Keypad User Manual

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Introduction to Permex Oilwatch Systems

Permex are a UK company who have designed and manufactured state of the art fluid handling equipment for over 30 years. Based in the UK Permex Ltd. has combined its extensive knowledge and experience of workshop and production line lubrication equipment to develop a range of uniquely upgradeable oil monitoring systems, Oilwatch is the most flexible electronic oil dispensing and recording system available.

Oilwatch has been installed throughout the world in garage workshops gaining a reputation for quality and reliability now with the launch of the Oilwatch II keypads we believe this product has the flexibility and enhanced features to remain the system of choice for most workshops.

Oilwatch operates with pulser meters and solenoid valves fitted into the fluid delivery lines, with these items Oilwatch both controls and monitors the fluid dispensing. The volume dispensed is measured by the Oilwatch keypad from a digital signal returned by the meter, Oilwatch can close down a dispense once the volume required is reached.

Over recent years it has become important that all facilities are able to accurately trace where, how and what has happened to all fluids purchased. The Oilwatch systems accurate dispensing makes monitoring a cost efficient solution for either large or small companies bulk liquids.

Companies wishing to improve their bulk oil installations and reduce there possible exposure to government action aimed at protecting our environment can rely on Oilwatch to monitor all deliveries and will find the Oilwatch Systems reporting capability comprehensive and easy to use.

The reporting packages capabilities of Oilwatch vary between each of our systems and the customers reporting requirements should be taken into account before the system is installed. The flexibility and quality of the Oilwatch system design has made it an essential modern management tool reducing waste, controlling cost and increasing profits.

With either our Pc Oilwatch or the stand alone Compact Oilwatch system, users can retrieve a list of transactions to ensure an accurate traceable environment is maintained.

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Introduction to Compact Oilwatch

The Compact Oilwatch has been designed for the smaller workshop or production line owner.

The flexibility of the Compact Oilwatch now makes oil monitoring a feasible and affordable solution for all potential users, enabling them then to adapt the unit to the ever changing needs of their business without the need for large investments.

The Compact Oilwatch has only one control unit that can monitor up to 8 different outlets each can dispense simultaneously from any one of the outlets regardless of the product to be monitored, other fluids including antifreeze and brake fluids can operate on this system. Large digital displays can be installed to show volume dispensed if required.

For the operator the Compact Oilwatch is easy to use without the need for extensive training or manuals.

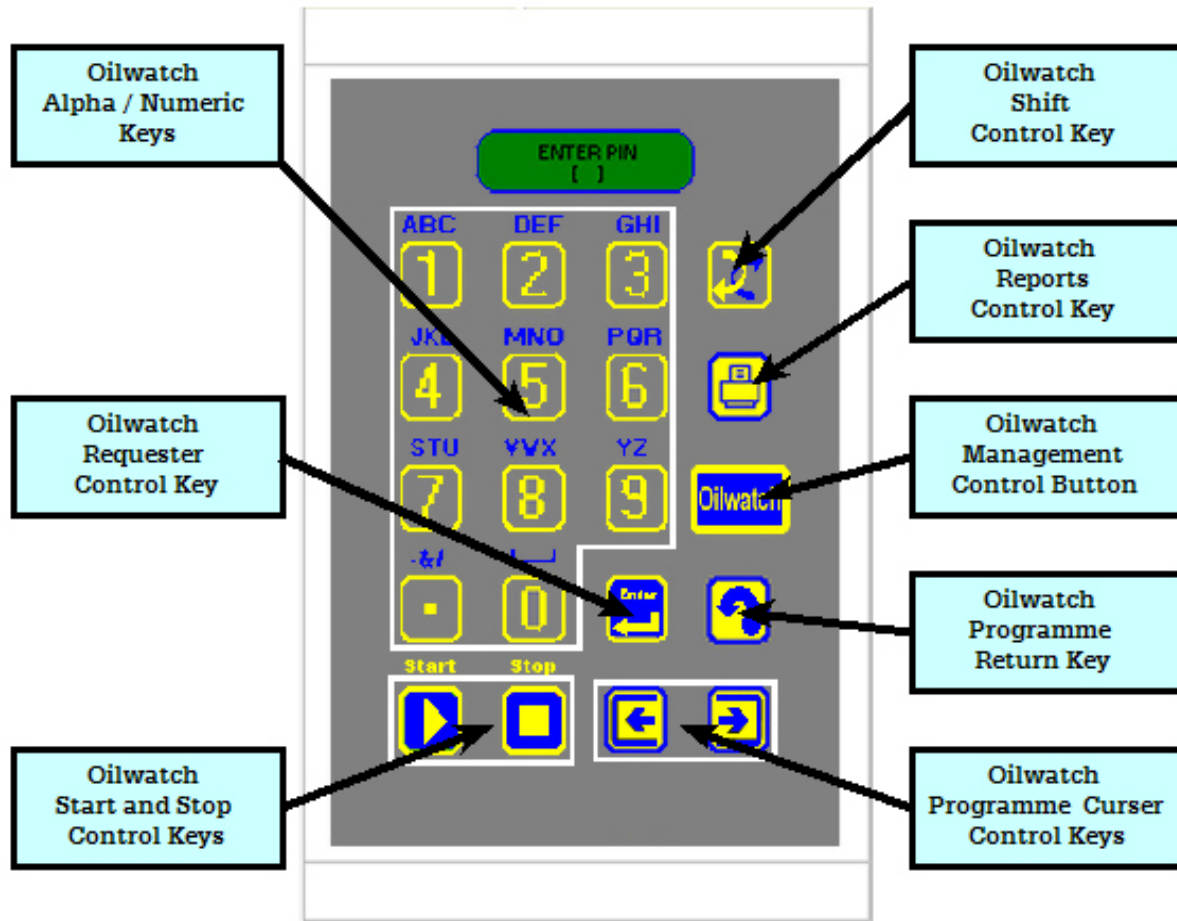
To activate dispensing all the operator has to do is tap in the entry information on a simple question and answer basis. The operator is prompted at every stage for Pin No., Job No., and Reel No. before oil can be delivered. The prompted instructions ensure quick system usage and trouble free operation. Operators can be allowed access to specific outlet only should this be required.

The Compact can be fitted with a printer to expand the systems reporting capability allowing print out of a hard copy which will include details such as Date and Time, Oil brand and grade , Reel No., Job No. Vehicle Registration, Name of operator, Quantity, Sales value. Waste product can be theoretically calculated into up to 8 tanks to give site owners to an early warning that there waist oil tanks need to be emptied.

Owners can expand their system by installing a Pc interface card into the Power supply and expanding there system into the Pc Oilwatch allowing the newly required number of keypads to be upgraded into the network.

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Keypad Layout



Quick Guide To Key Functions

The Keypad membrane has 20 Keys, 9 of these keys are simply alpha / numeric or punctuation inputs, the other 11 keys are system control keys.

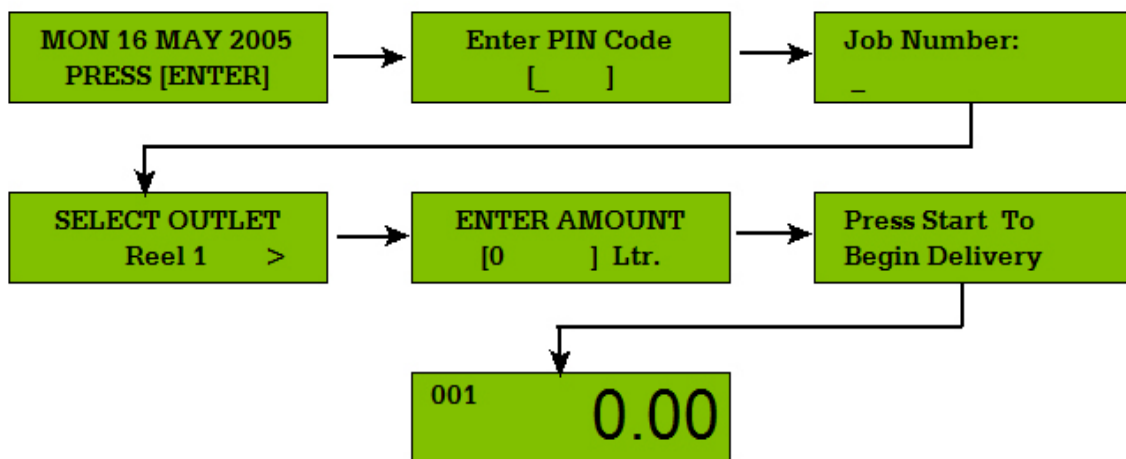
Guide to control key functions

- **Oilwatch Shift Control Key**
After alpha entry is used the cursor can be returned under a letter pressing the shift key will change the text from upper case to lower case if required.
- **Oilwatch Reports Control Key**
The reports key gives access to the systems reporting options.
- **Oilwatch Management Control Button**
The Oilwatch Button gives access to the systems management functions.

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- **Oilwatch Programme Return Key**
This key is used to return to a previous screen prompt if required.
- **Oilwatch Programme Curser Control Keys**
These keys control the position of the curser and allow movement through the system prompt screens.
- **Oilwatch Start and Stop Control Keys**
These keys are used to start and stop a dispense.
- **Oilwatch Requester Control Key**
This key is used to except and entry and move to the next field or to confirm a prompt answer.

Main User Menu Flowchart



Keypad Entry

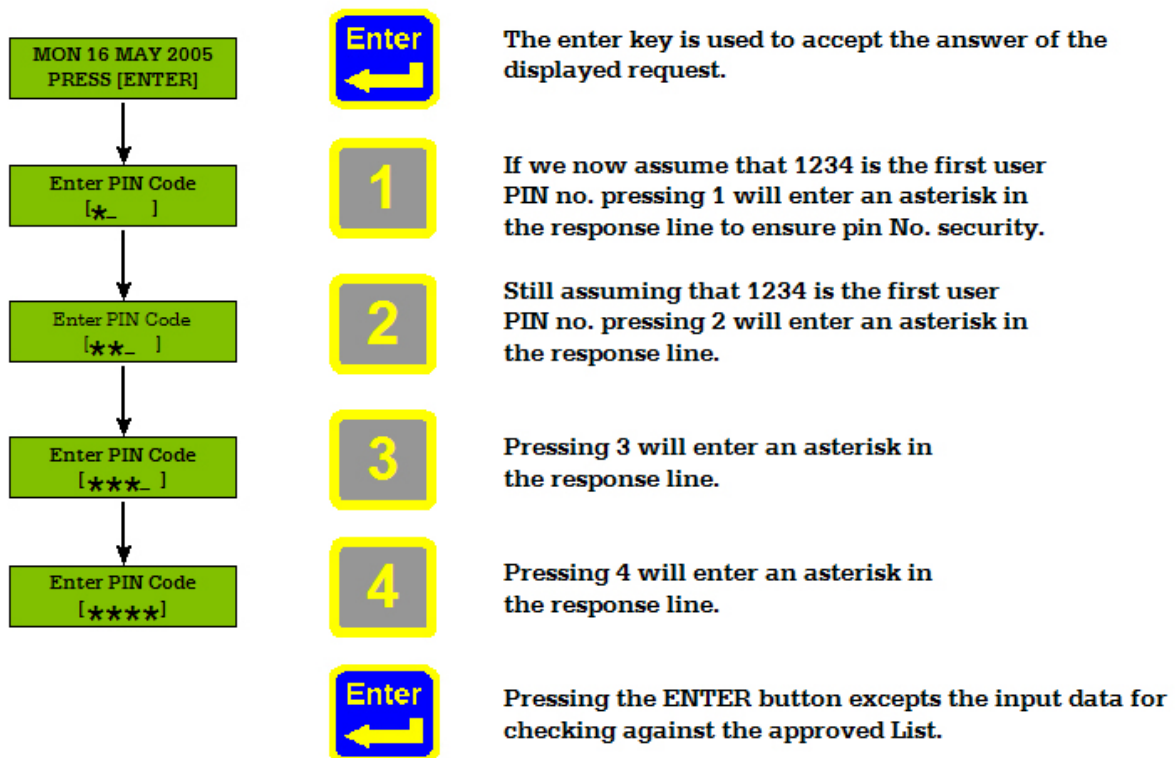
Whenever alpha or numeric entry is required, The top line of the display is used to display a prompt, for example, "Enter Pin Code" or "Job Number" The bottom line of the display is used to display the entry being made replying to the prompted request.

The following pages use flowcharts to instruct operators how to input information into the system. Showing how dispenses can be made simultaneously on systems using our standard flow rate meters.

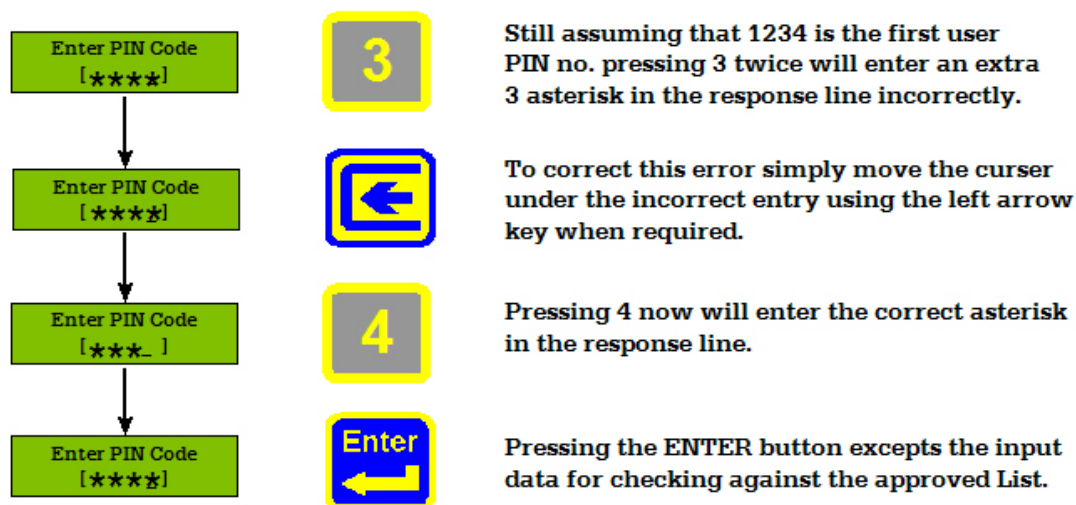
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These pages walk two operators through inputting data to allow them to dispense on Job number A12349J through reel 2 a quantity of 5.4 l and also allow the second operator to dispense on Job number A12348R through reel 1 a quantity of 4.9 l.

Keypad Use Flowchart

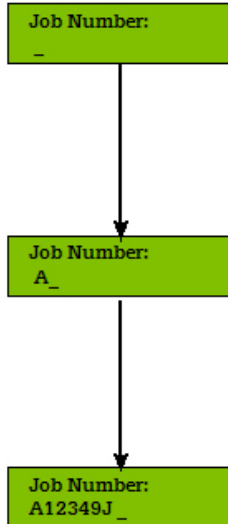


Pin No. Entry Correction



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The enter key used to accept the PIN No. also changes the display to the first of up to four prompt requesters in this example we are using only Job Number. The prompt requester appears on the top line of the display while the cursor awaits data input on the bottom left of the screen, inputting Job number data of A12349J is simply a matter of using the corresponding keys.



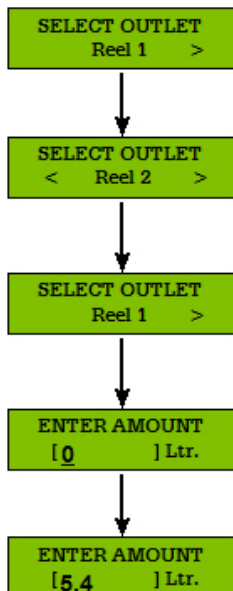
A B C



Entry of either Alpha or Numeric symbols is simply a matter of finding the key with the number on it or the letter above it in this example A is above 1. To Use a letter you simply press the button once for the number and again for A, B would be three times and C four presses. The following sequence will input the full Job Number.



Pressing the ENTER button accepts the input data.



After the enter key is used to accept the answer of the displayed request the screen will request a reel input. On this Job we wish to use reel 2 for this dispense we can either use the right arrow key to move to the next reel and except this using the enter button.



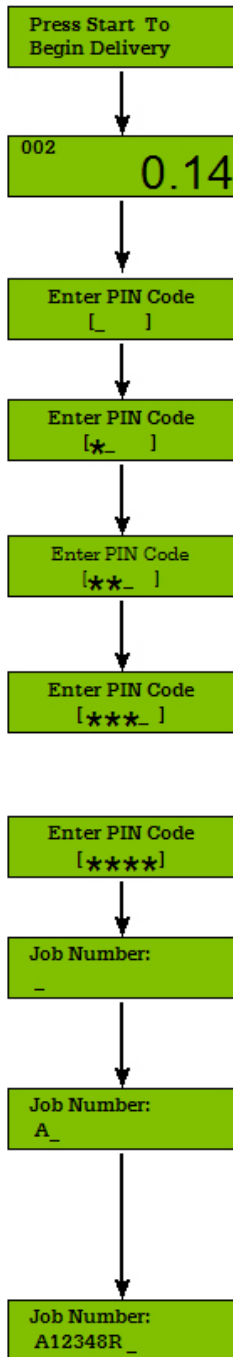
Alternatively we could simply press button 2 this takes us directly to the ENTER AMOUNT screen after selecting reel 2.

We wish to dispense a quantity of 5.4 L to do this we simply use the buttons to add 5.4 into this screen



Pressing the ENTER button accepts the input data for checking against the approved List.

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A B C



+ 4 Presses of



P Q R



After the enter key is used to accept the dispense quantity of 5.4 L the final screen requester activates asking you to press start to begin the delivery. The Screen will now show the outlet number dispensing and the volume as it is taken.

To Start inputting the data for our second dispense the 2nd user simply presses the enter button which changes the screen into the Enter PIN code mode. The Second user now follows the prompts in the same way as the first user substituting his information.

Let us assume the second users PIN No. is 1235 pressing 1 will enter an asterisk in the response line to ensure pin No. security.

Pressing 2 will enter an asterisk in the response line.

Pressing 3 will enter an asterisk in the response line.

Pressing 5 will enter an asterisk in the response line.

Pressing the ENTER button accepts the input data for checking against the approved List, once approved the display changes to the first prompt requester Job Number.

As before entry of either Alpha or Numeric symbols is simply a matter of finding the key with the number on it or the letter above it in this example A is above 1. To Use a letter you simply press the button once for the number and again for A, B would be three times and C four presses. Now we wish to input Job number data of A12348R. The following sequence will input the full Job Number.

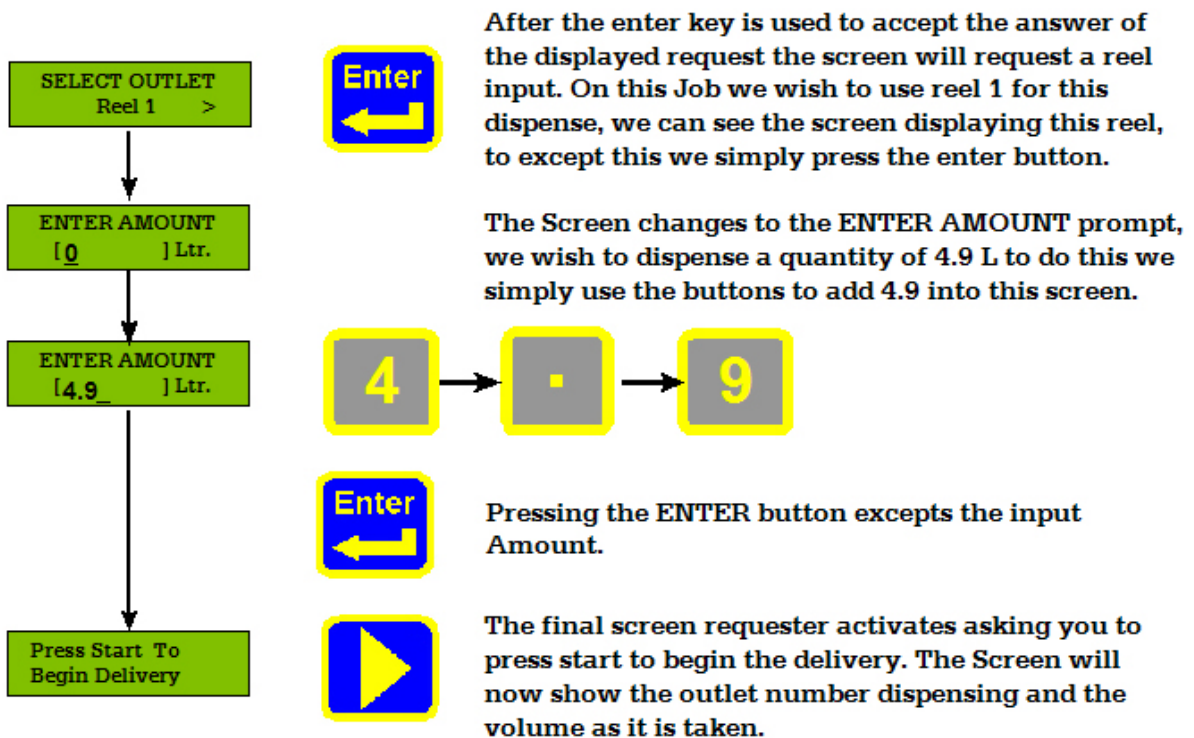
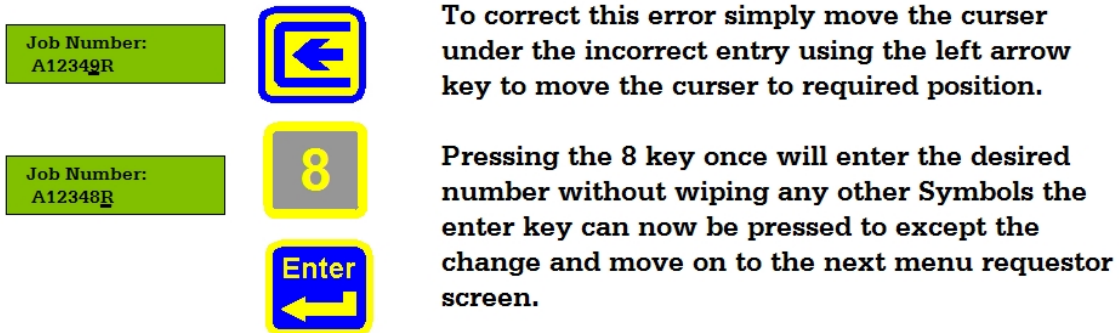
Pressing the ENTER button accepts the input data.

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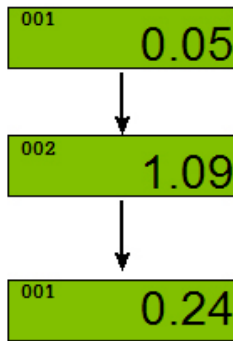


If the operator realises that an error in the input of characters has been made before pressing the enter key they can correct the error as follows.

As an example the input above was meant to be A12348R but was incorrectly made as A12349R.



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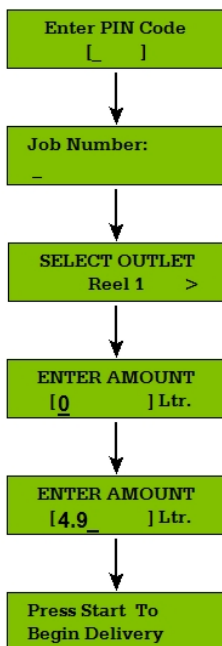
The Screen will now show the outlet number dispensing and the volume as it is taken.



To show the volume as it is taken of the first user we simply use the right arrow key to go up to reel 2 and then the left arrow key to go back to reel 1.



As the dispenses finish they will be printed on the printer and will no longer be able to be viewed.



After the enter key is used to accept the answer to the displayed request the screen will change to the next requester prompt.

At any point up to the final " Press Start to begin delivery " request prompt it is possible to return through the previous screens using Oilwatch Programme Return Key.



Once the final screen requester activates asking you to press start to begin the delivery the Oilwatch will only except input of starting the dispense, the operator can of course immediately after starting the dispense press the stop button.

After pressing start the Screen will show the outlet number dispensing and the volume as it is taken.



Transaction Printouts

If the system has a printer connected to it the ticket printer will print out the details of the transaction once a dispense has finished. If the system has not got a printer connected to it the system simply store up to 1000 of the completed transaction in the Compact Oilwatch database after this number the system simply overwrites the data.

Printout includes :-

Transaction Number, Date, Time, Oil Grade, Outlet No., Custom Prompts, Operator Name, Quantity dispensed, Selling Price and when applicable a Low tank stock level warning.

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In Service Troubleshooting

Trouble Found	Possible Problems	Solutions
The system will not dispense fluid after correct input of data.	No air to Pump. Oil isolation valve turned off. Not enough oil in tank.	Get air back on pump. Turn fluid valves on. Refill tank and prime pump.
My Pin No. does not allow me access to dispensing.	Pin No. not authorised to dispense product.	Ask manager to grant access to dispensing for this pin No.
My Pin No. does not allow access to reports.	Pin No. not authorised to use reports functions.	Ask manager to grant access to reports functions.
My Pin No. does not allow access to management menu.	Pin No. not authorised to use management menu.	Ask manager to grant access to management menu.
When I put in a reel number that normally works the keypad will not allow me to use it.	Tank level below tank shutdown limit.	Order a new delivery or input a received delivery quantity.
The system is not giving an accurate quantity reading.	Flow rate above maximum Flow rate below minimum	1. Decrease flow rate 2. Increase flow rate 3. Service pulse meter
Displaying accurate quantity reading. Dispense wrong.	Imperial G,Q,P system Chosen wrong U. of M. setting.	Chose correct setting for next dispense.
Pulse meter indicates reduced or zero flow.	Electrical connection failure Switch module defective	Check wiring Replace switch module
Fluid flow reduced or zero	Foreign material in valve Flow rate below minimum Damaged coil Damaged Keypad relay due to connector diode failing in the open position.	Locate and eliminate source of foreign material. Increase flow rate Replace coil Replace Keypad Controller circuit board and Connector
Transactions fail to print	Paper or printer ribbon empty Memory corruption in transaction database.	Change paper or ribbon. Reset transaction database use Erase Records in the manager menu.

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In Service Help

Service Notes



Riverside House, Plumpton Rd, Hoddesdon, Hertfordshire, EN11 0PA, England.

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