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Revolution Not Evolution

7328

**DIPTRONIC™
L.I.P.S
(Load Integrity Protection System)**

DRIVERS MANUAL



Issue D March 2010



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1.0 The Diptronic L.I.P.S Driver Delivery Instructions

The Diptronic System eliminates the need for manual dipsticks. This means there is no longer a need for personnel to climb to the top of the tank, eliminating associated injury risk. Also, the escape of VOC's is prevented, as dip hatches do not require opening.

Radar sensors that are bolted to the top of each compartment have replaced the manual dipsticks normally present. They are connected to a CPU on the side of the truck that indicates the volume in each compartment.

The Diptronic System will be permanently powered while the battery isolation switch is on. The CPU on the side of the truck is used to check (and print) the level of product in each compartment. Use the buttons on the front panel to change compartments and make a delivery.

Either follow the quick steps in section 2 or follow the steps in section 3 or 4 for a more comprehensive guide to making a delivery using Diptronic.

Note, for those cases where product temperature compensation is being applied, refer section *10.0 Temperature Compensation*.



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2.0 Quick Steps to Making a Delivery

Making a delivery using Diptronic is made in two simple steps:

1. Prior to unloading a compartment hold **OK** and press **PRINT** to set the beginning of the delivery. This is the initial level of the product that will be recorded by the CPU. A 'recording start of delivery' message will be displayed on the bottom display.

2. Once the delivery is finished press the **PRINT** button to set the end of delivery (and print a delivery ticket if using ticket printer). A 'dynamic measurement – delivery finished at XXXXXL' message will be displayed.

Note: The most recent delivery is stored in internal memory for reference. To view this information hold **INC** and press **OK**, release and press the **PRINT** button two times. Following each delivery the previous delivery is erased from memory.

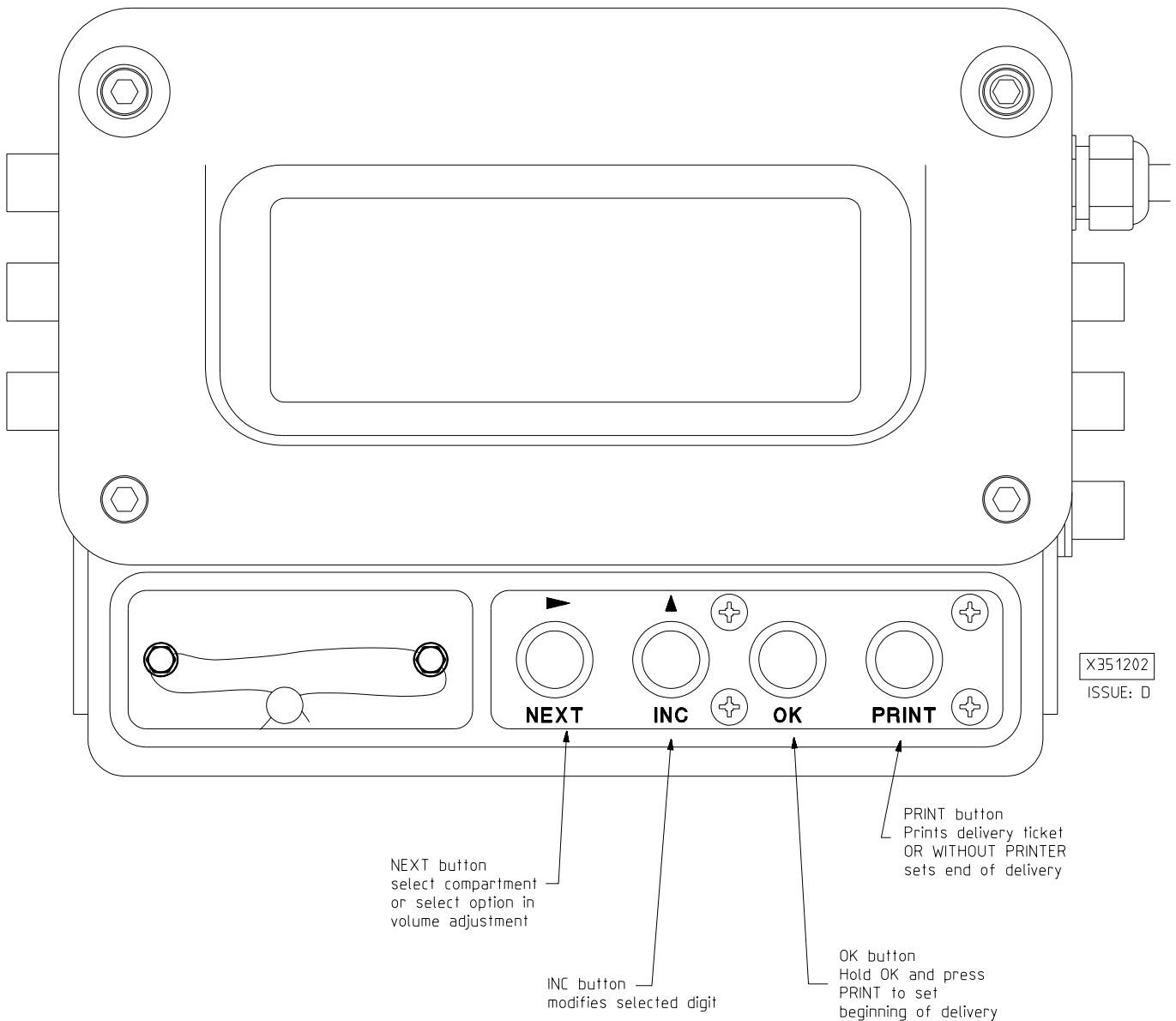
This menu will be automatically exited after 15sec of the last button being pressed.

The product level must be relatively stable or a PLEASE WAIT message will appear on the display. Diptronic will automatically determine when the product level is sufficiently stable and notify the user in this case.

A history ticket can be printed by holding the INC and PRINT buttons at the same time. To cancel the printing at any time press the INC and PRINT buttons again. Up to 2000 history events are stored in memory.



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Note: To change the display to the next compartment, press (and hold) the NEXT button.
Press INC and OK to check the radar mm, temperature and sensor serial number.



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3.0 Making a Partial Delivery Using Diptronic

LOADING BOTTOM LOADING TANKER		
1	Check for returns in each compartment to be loaded	
2	Lift guard bar	Brakes applied and vents open
3	Connect ground and overfill cables	
4	Open all footvalves	Wet legs checked and permissive to load if all legs are dry. Note: 3 permissives to overfill - Vent pressure switch - Wet legs - Overfill probes
5	Connect loading arms	
6	Open API couplers	
7	Proceed loading as normal	Wet legs become wet
8	Close API couplers	
9	Close footvalves	
10	Disconnect loading arms	
11	Disconnect ground and overfill cables	
12	Lower guard bar	Brakes released and vents closed
13	All compartments will be sealed	'SEALED' on bottom display



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UN-LOADING TANKER PARTIAL COMPARTMENT

1	Drive to delivery site and lift guard bar	Brakes applied and vents open
2.	Open footvalves	When all footvalves are open a 'READY' message will be displayed in the bottom display
3	Insert ticket into printer	
4	Repeatedly press and hold NEXT to select each compartment to be unloaded. Hold OK and press PRINT for each selected compartment to set the start of delivery	Top display will stop blinking and a 'dynamic measurement – please wait recording start of delivery' message will be displayed on bottom display. After 15sec this changes to 'dynamic measurement – delivery started at #####L – press PRINT when finished'
5	Connect hoses as required	
6	Open the API adaptors	
7	Proceed unloading as normal	
8	When required volume has been delivered, close the API adaptors	Bottom display will show 'wetleg:WET'
9	Disconnect hoses	
10	When adaptors are capped and area is safe, repeatedly press and hold NEXT to select each compartment that has been unloaded	
11	Press PRINT while selecting each compartment in step 10	Top display will stop blinking & display fixed current volume. Bottom displays 'READY – end of delivery – please wait'. After 15sec top display returns to current level and bottom displays 'dynamic measurement – delivery finished at #####L'. This message will be displayed for 1min. A customer receipt will be printed.
12	Close footvalves	
13	Lower guard bar	Brakes released and vents closed
14	Repeat steps 1 to 13 until all deliveries made	



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4.0 Making a Full Delivery Using Diptronic

LOADING BOTTOM LOADING TANKER		
1	Check for returns in each compartment to be loaded	
2	Lift guard bar	Brakes applied and vents open
3	Connect ground and overfill cables	
4	Open footvalves	Wet legs checked and permissive to load if all leg are dry. Note: 3 permissives to overfill - Vent pressure switch - Wet legs - Overfill probes
5	Connect loading arms	
6	Open API couplers	
7	Proceed loading as normal	Wet legs become wet
8	Close API couplers	
9	Close footvalves	
10	Disconnect loading arms	
11	Disconnect ground and overfill cables	
12	Lower guard bar	Brakes released and vents closed
13	All compartments will be sealed	'SEALED' on bottom display



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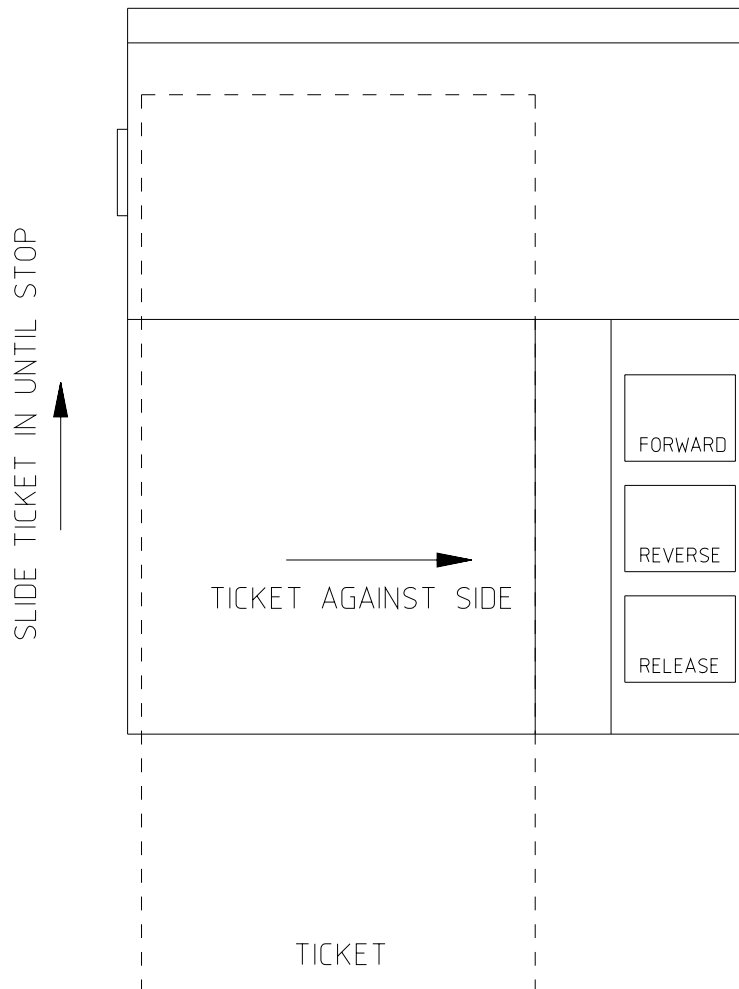
UN-LOADING TANKER FULL COMPARTMENT

1	Drive to delivery site and lift guard bar	Brakes applied and vents open
2	Open footvalves	When all footvalves are open a 'READY' message appears on bottom display
3	Insert ticket into printer	
4	Repeatedly press and hold NEXT to select each compartment to be unloaded. Hold OK and press PRINT for each selected compartment to set the start of delivery	Top display will stop blinking and a 'dynamic measurement – please wait recording start of delivery' message will be displayed on bottom display. After 15sec this changes to 'dynamic measurement – delivery started at #####L – press PRINT when finished'
5	Connect hoses as required	
6	Open the API adaptors	
7	Proceed unloading as normal	
8	When compartment empty, close API adaptors	Top display will show 'MIN-' indicating the sensor can no longer obtain a level reading from the product in the compartment. No product will be visible in the sight glass. Bottom display will show 'wetleg:DRY'
9	Disconnect hoses	
10	When adaptors are capped and area is safe, repeatedly press and hold NEXT to select each compartment that has been unloaded	
11	Press PRINT while selecting each compartment in step 10	Top display will stop blinking & display fixed current volume. Bottom displays 'READY – end of delivery – please wait'. After 15sec top display returns to current level and bottom displays 'dynamic measurement – delivery finished at #####L'. This message will be displayed for 1min. A customer receipt will be printed
12	Close footvalves	
13	Lower guard bar	Brakes released and vents closed



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5.0 Using the Epson Ticket Printer



A printer can be used to print out the volume of product in the compartment. The printer most commonly used is the EPSON TM295 slip printer.

A standard ticket is 260mm by 114mm. The ticket is inserted into the printer as shown. Press the forward button for the printer to hold onto the paper.

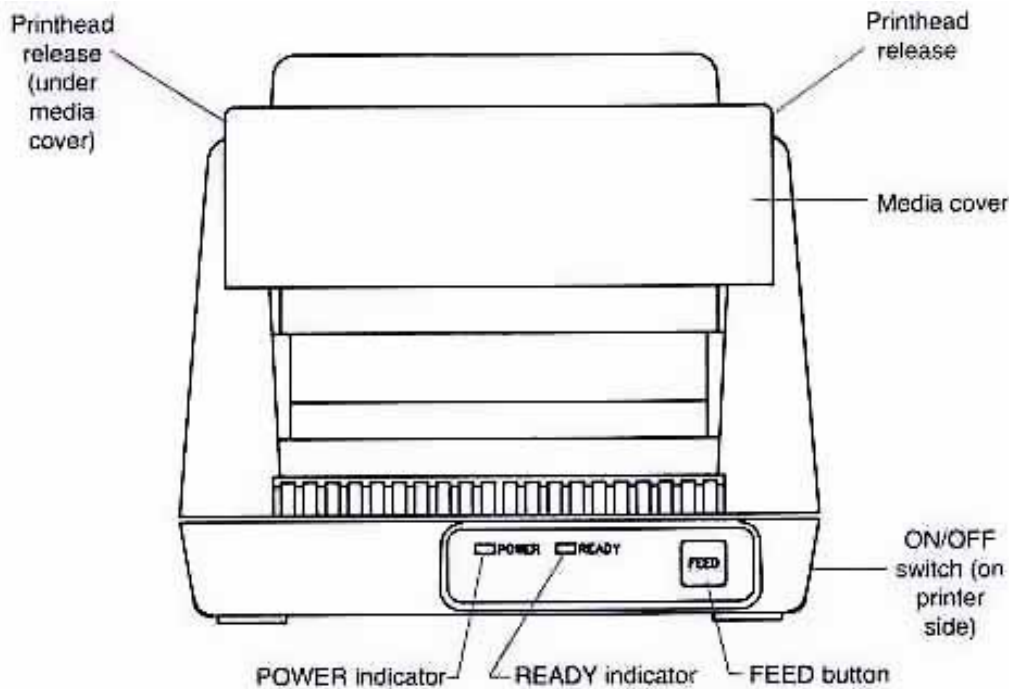
The release button on the printer may have to be pressed if the *paper out* light is on.

Note: Dip switch settings

1. Power off printer
2. Toggle dip switches #1 & #3 to ON position. Remaining switches to be in the OFF position.
3. Power printer on.

6.0 Using the Blaster Printer

The Blaster Printer is another printer that may be used on some installations. Refer to the table on the following page for a summary on operation.



Note:
These figures show the 4.25" TT printer. Other models are similar.

Figure 1. Printer front view

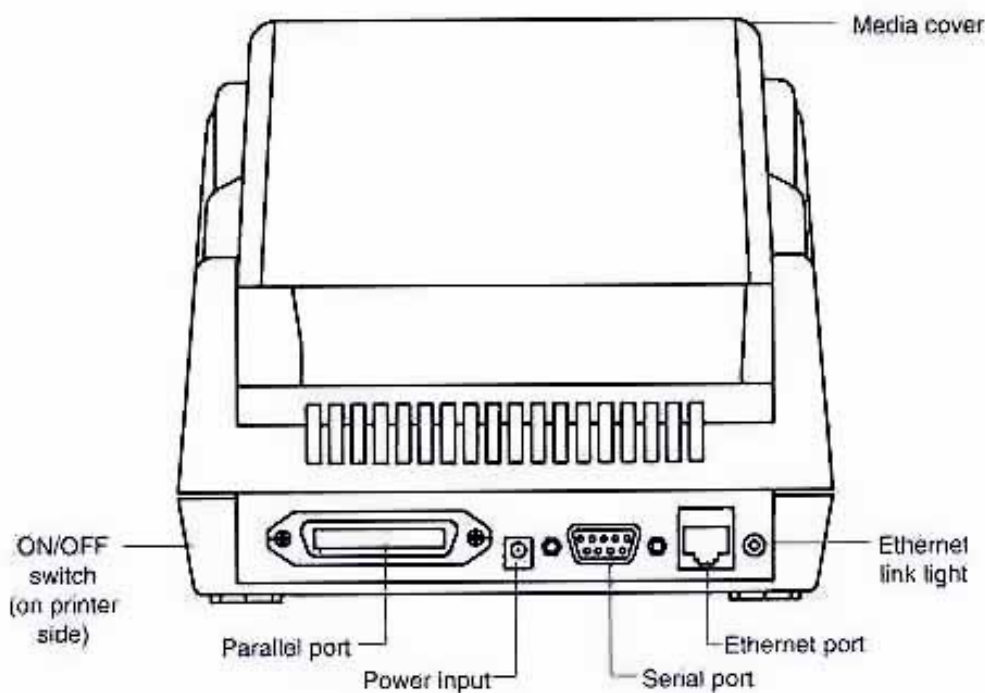


Figure 2. Printer rear view



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BLASTER PRINTER FUNCTIONS

REF	DEVICE NAME	PRIMARY FUNCTION	USE
1	ON/OFF switch	Controls printer power	<i>ON</i> - normal operation <i>OFF</i> - while loading print media <i>OFF</i> - for storage NOTE: The POWER and READY lights will stay on for several secs after the printer is turned off
2	FEED button	Advances label stock to beginning of next label	<i>PRESS</i> - to adv paper <i>PRESS</i> and <i>HOLD</i> while turning unit <i>ON</i> - prints test label and activates hex dump mode - cycle power to resume normal printing <i>PRESS</i> - to pause or resume batch mode processing
3	Power indicator	Shows printer power is ON	<i>OFF</i> - Power off <i>GREEN</i> - Power on
4	Ready light	Shows printer status	<i>GREEN</i> - Printer ready for data <i>OFF</i> - Printer busy <i>RED</i> - Printer error or printer paused during batch mode
5	Power input jack	Connects to power	Connect to power harness from Diptronic CPU
8	Printhead release	Unlocks printhead	Push toward rear of printer to release printhead
9	Media cover (removable)	Protects print media	Squeeze sides and lift to open Squeeze hinge and lift to remove



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7.0 CPU Battery System

When the CPU is first powered up the software version is shown on the bottom display for a few seconds. There is also a note giving the status of the internal software battery. The normal reading should show: *'MEMORY BACKUP BATTERY OK'*

If the display shows: *'MEMORY BACKUP BATTERY LOW'* then contact Liquip for further assistance.

8.0 Calibration Report Ticket

To get a printout of all calibration and setup data for a particular sensor press the **NEXT** and **PRINT** buttons at the same time while in the main display. A calibration report will be printed depending on the compartment currently selected. Press (and hold) the **NEXT** button to cycle between compartments.

If there is insufficient paper inserted in the ticket printer to print all the data, a warning message will be displayed prompting for more paper. If no paper is inserted within a 10sec period after the warning message is displayed the screen will revert back to the main display. In this case simply repeat the above procedure with adequate paper in hand. The information is non-erasable.



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9.0 Sample Printer Tickets

Sample full compartment delivery ticket

----- DELIVERY DOCKET -----

LIQUIP SALES PL

TRUCK No: ABC123
DELIVERY No: 36
COMPARTMENT: 1
SEALED 12:44:45 14/06/02
SEALED AT VOL[L]: 01189

START AT 13:44:02 14/06/02
START VOLUME [L]: 01189
BROKEN 13:44:23 14/06/02

END AT 13:54:16 14/06/02
END VOLUME [L]: MIN-

THIS DELIVERY[L]: 01189
COMPARTMENT NOW EMPTY
SUBTOTAL VOL[L]: 01189
PRINTED 13:54:54 14/06/02

----- END -----

Sample delivery ticket when emptied below sensor range (MIN-)

----- DELIVERY DOCKET -----

LIQUIP SALES PL

TRUCK No: ABC123
DELIVERY No: 34
COMPARTMENT: 1
SEALED 12:27:50 14/06/02
SEALED AT VOL[L]: 01360
BROKEN 12:28:33 14/06/02

START AT 12:38:22 14/06/02
START VOLUME [L]: 01188

END AT 12:39:44 14/06/02
END VOLUME [L]: MIN-

INCOMPLETE DELIVERY
PRESS OK+PRINT
EMPTY COMPARTMENT, PRINT
PRINTED 12:40:02 14/06/02

----- END -----



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Sample delivery ticket when emptied from below sensor range (MIN-)

----- DELIVERY DOCKET -----

LIQUIP SALES PL

TRUCK No: ABC123
DELIVERY No: 34
COMPARTMENT: 1
SEALED 12:27:50 14/06/02
SEALED AT VOL[L]: 01360
BROKEN 12:28:33 14/06/02

START AT 12:40:16 14/06/02
START VOLUME [L]: MIN-

END AT 12:40:58 14/06/02
END VOLUME [L]: MIN-

INVALID DELIVERY
COMPARTMENT NOW EMPTY
PRINTED 12:40:02 14/06/02

----- END -----

Sample part compartment deliver ticket

----- DELIVERY DOCKET -----

LIQUIP SALES PL

TRUCK No: ABC123
DELIVERY No: 46
COMPARTMENT: 1
SEALED 14:27:05 14/06/02
SEALED AT VOL[L]: 02291

START AT 15:27:28 14/06/02
START VOLUME [L]: 02291
BROKEN 15:27:54 14/06/02

END AT 15:29:37 14/06/02
END VOLUME [L]: 01238

THIS DELIVERY[L]: 01053
SUBTOTAL VOL[L]: 01053
PRINTED 15:29:54 14/06/02

----- END -----



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Sample delivery ticket - with temperature compensation

----- DELIVERY DOCKET -----

LIQUIP SALES PL

TRUCK No: ABC123
DELIVERY No: 01
DATE: 23/04/2004
TIME: 10:08
COMPARTMENT: 1
PRODUCT: PULP
DENS.MAN.ENTERED: 0.752 Kg/L
CONVERTED TO +15 degrees C
START OF DELIVERY ->
UNCONV.VOL.: 01205 L
END OF DELIVERY ->
UNCONV.VOL.: 00830 L
DELIVERED ->
UNCONV.VOL.: **00375 L**
CONV.VOL.: **00368 L**

----- END -----



10.0 Temperature Compensation

Liquid petroleum expands when heated and contracts when cooled. This can lead to resellers being charged for higher volumes of fuel than they have once it cools. To compensate for this discrepancy, the fuel may be temperature compensated to 15DegC according to its density.

Diptronic allows the driver to select the type of fuel in each compartment from which it automatically converts the volume to 15DegC. To do this it monitors the temperature of the fuel for the selected compartment.

The bottom left hand corner of the lower LCD panel displays the selected product. Note, temperature compensation is essentially disabled when CHECK P (Check Product) is selected. In this case a density of 0Kg/L is automatically selected.

To change the type of fuel in a compartment:

1. Continue to press the NEXT button until the required compartment is selected.
2. Press INC & OK.
3. Continue to press the NEXT button until the flashing cursor highlights the required product.
4. Press OK to select the product.
5. Press INC to change from ARE YOU SURE? NO to ARE YOU SURE? YES
6. Press OK to confirm the selection.
7. Check the correct product is selected in the main display.

Note, if no button is pressed for a period of approximately 20sec, the screen will revert to the main display.

Refer sample loading ticket with temperature compensation on previous page.



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11.0 System Messages / Diagnostics

SYMPTOM	CAUSE	CORRECTIVE ACTION
"Maximum level exceeded" message	Product overflow	Drain product
"Above measured limit" message	Product above sensor range	Drain product to a lower level within sensor range
"Safe fill level exceeded" message	Product above safe fill level	Drain product to a lower level within safe fill
"Communication error" message (sensor)	CPU unable to communicate with sensor	<ul style="list-style-type: none"> * Check wiring to sensors for open/short circuits * Check wiring under sensor housing for short circuits
"Communication error" message (printer)	CPU unable to communicate with printer	<ul style="list-style-type: none"> * Switch on printer * Check wiring to printer for open/short circuits * Check voltage to printer between 22 and 30V DC
CPU doesn't power up	No power from truck battery	<ul style="list-style-type: none"> * Check isolation switch is on * Check wiring between CPU and isolation switch * Check fuses
"NO PAPER" message on CPU	<ul style="list-style-type: none"> * No paper in printer * Paper inserted incorrectly 	<ul style="list-style-type: none"> * Insert paper * Check paper is straight
Printer doesn't power up	<ul style="list-style-type: none"> * Printer not turned on * Voltage to printer too low * No power to printer 	<ul style="list-style-type: none"> * Switch on printer * Voltage should be between 22V and 30V DC * Check wiring to printer for open/short circuits
Gantry:??? Wetleg:???	<ul style="list-style-type: none"> * No power to PPM340 * PPM340 N/C to CPU 	<ul style="list-style-type: none"> * Check power to PPM340 * Check harness connected
CPU displays MIN-even when full	<ul style="list-style-type: none"> * Water in compartment * Calibration or setup error 	<ul style="list-style-type: none"> * Drain water from compartment * Contact Liquip



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APPENDIX 1— Diptronic Reference Booklets

PART #	DOCUMENT	FILENAME
7310	DIPTRONIC MEASURING SYSTEM MK1 DRIVERS MANUAL	DIP200_INST_DIPTRONIC_MEASURING_DRIVER_INSTRUCTIONS_P7310.pub
7326	DIPTRONIC MEASURING SYSTEM MK1 & L.I.P.S. (WITH GPS) CALIBRATION MANUAL	DIP200_INST_DIPTRONIC_CALIBRATION_P7326.pub
7327	DIPTRONIC MEASURING SYSTEM MK1 & LIPS AUTOMATIC CALIBRATION RIG MANUAL	DIP200_INST_DIPTRONIC_CALIBRATION_RIG_P7327.pub
7328	DIPTRONIC L.I.P.S DRIVERS MANUAL	DIP200_INST_DIPTRONIC_LIPS_DRIVER_INSTRUCTIONS_P7328.pub
7329	DIPTRONIC MEASURING SYSTEM MK1 INSTALLATION MANUAL	DIP200_INST_DIPTRONIC_MEASURING_INSTALLATION_INSTRUCTIONS_P7329.pub
7330	DIPTRONIC L.I.P.S. & GPS INSTALLATION MANUAL	DIP200_INST_DIPTRONIC_LIPS_INSTALLATION_INSTRUCTIONS_P7330.pub
7331	DIPTRONIC GENERAL INFORMATION	DIP200_INST_DIPTRONIC_GENERAL_INFORMATION_P7331.pub
7333	DIPTRONIC CPU (DIP200 & DIP240) SOFTWARE UPGRADE INSTRUCTIONS	DIP200_INST_DIPTRONIC_SOFTWARE_UPGRADE_INSTRUCTIONS_P7333.pub
7334	DIPTRONIC MEASURING SYSTEM MK1 & L.I.P.S. CPU REPLACEMENT INSTRUCTIONS	DIP200_INST_DIPTRONIC_CPU_REPLACEMENT_INSTRUCTIONS_P7334.pub
7335	DIPTRONIC MEASURING SYSTEM MK1 & L.I.P.S. SENSOR (ANTENNAE & DIP100-12, DIP120-12 & DIP130-12) REPLACEMENT INSTRUCTIONS	DIP200_INST_DIPTRONIC_SENSOR_REPLACEMENT_INSTRUCTIONS_P7335.pub
7400	DIPTRONIC MEASURING SYSTEM MK1 & L.I.P.S. DipRecall MANUAL	DIP200_INST_DIPTRONIC_DIPRECALL_INSTRUCTIONS_P7400.pub



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