



Data-Plus Programming Instruction Manual

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DISPENSER

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KEYPAD DIAGRAM



KEYPAD DESCRIPTIONS

The DATA PLUS has been designed "USER FRIENDLY". The only two (2) keys you need to know are the MENU \oplus and ENTER. Pressing either key will advance you through the screens. Read the screens and respond with one of the buttons below.



MOVING THROUGH THE MENUS

Data Plus programming is done through the use of menu selections. Any menu can be entered by pressing the ENTER button, or exited by pressing RESET (or in some cases MENU \oplus or \hat{T}). Its that simple! Each of the main menu headings give an idea of what information can be found, entered, or changed. Within each main menu selection are several screen "prompts" that walk you through the complete programming process step-by-step.

ACCESS CODES

The system has an access code for protection:

- The access code, allows entry into ALL of the menus and functions of the system.
- Systems are shipped from the factory with access codes set to zero. (changing codes is explained later in this manual).

TO PROGRAM DISPENSER PRESS "MENU DOWN ARROW" ...

ENTER ACCESS CODE THEN PRESS ENTER	Press the "Down Arrow" button to access the system and the screen at left should appear. If the screen at left does not appear, wait 2 seconds, press RESET, then press MENU &.
	When you see the screen at left, type in the access code and press ENTER. Remember, for a new system, the access code will be zero (until you change it later).
	Follow the programming steps for each section, starting on the next page.

IMPORTANT NOTES:

- Leading zeroes on access codes are not required to be entered. For example, an access code "010" can be typed in as "10", then press ENTER.
- Its strongly recommended to clear report data and setup report, See MEMORY FUNCTIONS [menu 1] for details.
- Its recommended to print the setup report each time its changed. See PRINTING FUNCTIONS [menu 7] for details.
- If at any time you get lost in the programming and are not sure what to do, press the RESET button until the section menu heading appears, then proceed.



1	*** DISPENSER *** MEMORY FUNCTIONS	•	Continued
	LOAD A PTM SETUP FILE? PRESS: YES OR NO	This menu module. Pre	selection is used to load a setup file from a PTM-6000 ess YES to load a file, or press NO to move on to the
	YES NO	next menu selection without loading.	
	PLEASE WAIT	After a few seconds, this message will appear i that file names are being read from the PTM When all available setup files have been r following prompt will appear	er a few seconds, this message will appear indicating at file names are being read from the PTM module.
			nen all available setup files have been read, the owing prompt will appear
	EXAMPLE <scroll> AND PRESS ENT</scroll>	ER Fil ca na on	e names appear on the top line of the display. You n use the SCROLL buttons to browse through the mes of other files on your PTM (if there is more than e setup file on the module). When the desired file me appears, on the top line, press ENTER
		14	
	EXAMPLE TRANSFERRING	DATA	The file transfer will begin, and will take a few minutes to complete. The display will show TRANSFER COMPLETE when finished.

2 *** DISPENSER *** SETUP ROUTINES	 Change Main AccessCode Set Date And Time Set Unit Of Measure Product Type Set Washer Type Set Pump Speed Set Supply Alarm Set Feed Limit Set Wash Temp Tolerances Set Wash Temp Alarm Set Temp Alarm Delay Set Probe Alarm Set Soiled Water Alarm Set Alarm Volume Set Operating Mode Set Pulse Feed Percent Rinse Time Per Rack Set Wash Temp Tolerances
CHANGE MAIN ACCESS CODE ? PRESS: YES OR NO YES NO	This menu selection allows you to change the main access code. Press YES to invoke the command, or press NO to move on to the next menu selection.
MAIN ACCESS CODE = 000 THEN PRESS ENTER	Use the number buttons to enter a 3-digit main access code, then press ENTER. Press the MENU & button to move on to the next menu selection.
SET DATE & TIME ? PRESS: YES OR NO YES NO	This menu selection allows you to set the time and date. Press YES to invoke the command, or press NO to move on to the next menu selection.
HOUR 00 MINUT MONTH 00 DAY 00 Y	TE 00 (R 00 Use the number buttons to set the date and time, then press ENTER. Press the MENU ↓ button to move on to the next menu selection.
UNIT OF MEASURE = US 1= US 2= METRIC 3= IMPERIAL	This menu selection allows you to change the unit of measure. Use the number buttons to choose the desired unit of measure. Press the MENU \oplus button to move on to the next menu selection.
PRODUCT TYPE 1 = DRY 2 = LIQUID	This menu selection allows you to pick the type of DETERGENT. Use the numbered keys to choose product type.

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2 *** DISPENSER *** SETUP ROUTINES	Continued
WASHER TYPE = 1 = DOOR 2 = CONVEYOR	This menu selection allows you to pick the type of dishwasher system. Use the numbered keys to enter the desired system.
RINSE SPEED = RANGE IS 0 – 99	This selection allows you to enter the speed of the rinse pump. Use the numbered keys to enter the relative value between $00 - 99$, and press ENTER when done.
	The rinse pump output is 7-38 milliliters/minute. For applications that require less than 7 ml of rinse aid, replace the standard T-53 tubing (3/6" I.D.) and blue tri-roller assembly with T-51 tubing (1/8" I.D.) and a brown tri-roller assembly. Actual operating speed of the rinse pump is also dependent on the flow rate. For setting the flow rate see Pg 20.
RINSE SUPPLY ALARM = <u>OFF</u> 1 = OFF 2 = ON	This selection allows you to enable (or disable) the rinse supply alarm Enter the desired selection and press MENU \oplus to move through this menu selection.
RINSE FEED LIMIT = 0:00 RANGE IS 0 – 3:59 MINUTES	This selection allows you to determine the length of the continuous rinse feed before shutoff. Limiting the of the amount of time the rinse product can be continuously fed reduce the possibility of chemical overuse on machines that fill thru the rinse solenoid valve. Use the number keys to enter the desired value and press ENTER when done.
RINSE ON DELAY =: RANGE IS 0 –3:59	This selection allows you to determine the length of the delay time between the rinse signal and the activation of the rinse pump. The rinse delay is used to limit rinse consumption. Use the number keys to enter the desired value and press ENTER when done.

Typically, any delay time+the limit time+ any extra time in the cycle = the total rinse time/rack.

2 *** DISPENSER *** SETUP ROUTINES	Continued
SANITIZER SPEED = RANGE IS 0 – 99	This selection allows you to enter the speed of the sanitizer pump (if connected). Use the number keys to enter a relative value between 00 – 99, press ENTER when done.
SANI SUPPLY ALARM = <u>OFF</u> 1 = OFF 2 = ON	This selection allows you to enable (or disable) the sanitizer alarm. Enter the desired selection and press MENU to move through the menu selection.
SANI WITH = 1 = RINSE 2 = DETERGENT	This selection shows whether the sanitizer pump (if equipped) will operate in conjunction with the detergent or the rinse pump. Use the number keys to enter the new data.
RINSE TIME PER RACK = 01 RANGE IS 1 – 59 SECONDS	This selection allows you to determine the length of the rinse time per rack. Use the number keys to enter the new data.

You must enter the <u>actual</u> time that the rack takes to pass thru the rinse section of a conveyor machine. When racks are run continuously (back-to-back), this is how the DataPlus counts racks.

monitor	(and log onto the printed report) if the wash temperature
falls outs	side of a given sampling range. Use the numbered keys
to enter	the value and press MENU I to move through this menu.
For the	operator an "out of range" condition can result in an
audible	and visual alert. You decide whether or not you want to
alert the	operator, or simply record the events on the report.

WASH TEMP TOLERANCES = HI = LOW = F	This menu selection allows you to enter the range, or tolerance, of wash water temperature. Use the numbered keys to enter the desired value and press ENTER when done. Press MENU \oplus to move through this menu. Set realistic tolerances for each system. Observe the operation of each machine and note average temperatures that would indicate an equipment breakdown or a source temperature problem.

2	*** DISPENSER *** SETUP ROUTINES	Continued
	WASH TEMP ALARM ? 1 = OFF 2 = ON	Enter the desired selection and press MENU $\$ to move through this menu.
	WASH TEMP ALARM DELAY RANGE IS 0 – 8 MINUTES	This menu selection will allow you to enter the wash temp delay period. Use the numbered keys to enter the desired value and press ENTER when done. Press MENU & to move through this selection. Once the detergent signal is received, the wash temperature probe can begin sensing. First, determine how long it takes the tank heater to raise the water temperature to the LOW tolerance temperature level. For most applictions, enter the period from the time the wash signal is received to the time that the LOW tolerance temperature is satisfied. If the system has a tendency to exceed acceptable high temperature levels, determine how long this condition should exist before the alarm sounds. Readjust the delay value as appropriate.
	RINSE TEMP SAMPLING = 1 = OFF 2 = ON	This selection allows you to decide if the system should monitor (and log on to the printed report) if the rinse water temperature falls outside of a given sampling range. Use the numbered keys to enter the desired value and press MENU \oplus to move through this menu selection.
	RINSE TEMP TOLERANCES = HI = LOW = F	This menu selection allows you to enter the range, or toler- ance, of rinse water temperatures. Use the numbered keys to enter the desired value and press ENTER when done. Press MENU& to move through this menu. Set realistic tol- erances for each system. Observe the operation of each machine and note average temperatures that would indi- cate an equipment breakdown or a source temperature problem.
	RINSE TEMP ALARM ? 1 = OFF 2 = ON	Enter the desired selection and press MENU 4 to move through this menu.

If the rinse temperature is too high/low this message will be displayed. In addition, the TEMPERATURE light on the front panel of the DataPlus will be lit and the alarm will sound.

*** DISPENSER *** SETUP ROUTINES

2

• Continued

RINSE TEMP ALARM DLY RANGE IS 1 – 59 SECONDS

This menu selection will allow you to enter the rinse temp delay period. Use the numbered keys to enter the desired value and press ENTER when done. Press MENU \oplus to move through this selection.

Once the rinse signal is received, the rinse temperature probe can begin sensing, First, determine how long it takes to flood the rinse line and read the true booster heater temperature (on most machines the low rinse temp tolerance is more important). For most applications, enter the period from the time the rinse signal is received to the time that the low tolerance temperature is satisfied.

If the machine has a tendency to exceed acceptable high temperature levels, determine how long this condition should exist before the alarm sounds. Readjust the delay value as appropriate.

SOILED WATER ALARM = 1 = OFF 2 = ON

This selection allows you to enable (or disable) the soiled water alarm. Enter the desired selection and press MENU to move through this menu selection.

SOILED WATER ALARM = 000 RANGE IS 000 – 999 RACKS

Enter the desired selection and press MENU $\ensuremath{\mathbb{Q}}$ to move through this menu selection.

Standard operating procedure for dishwashing operations require the wash water to be changed at least once every shift. Calculate the average number of racks for each shift and enter the value. After you run the first report, compare the figures with actual operations and adjust as appropriate.

2 *** DI SETU	SPENSER *** P ROUTINES	• (Continued
IDLE T 1 = C	IME ALARM = DFF 2 = ON	This selection is to enable (or d selection and pre	provided for conveyor machines, and allows you isable) the Idle time alarm. Enter the desired ess MENU to move through this menu selection.
	IDLE RANGE IS 1	TIME = - 59 MINUTES	Enter the desired selection and press MENU to move through this menu selection.
SET AL RAN	ARM VOLUME IGE IS 0 –7	This sets the ala MENU∜ to move	rm volume between 0 (lowest) - 7 (highest) press e through this menu selection.
OPERA 1 = PROBE	TING MODE = 2 = PROBELESS	This selection all probless control. and press MENU	ows you to set the system for probe control or Use the numbered keys to enter the desired value to move through this selection.

INITIAL CHARGE = 1 = MANUAL 2 = AUTO

This selection allows you to choose the method by which the initial amount of detergent will be fed. If it is desired to manually fill the detergent at the beginning of a wash day, press 1. If the system will automatically feed this amount instead, press 2. Press MENU[®] to move through this menu selection.

The INITIAL CHARGE button on the front of the system will be used to manually charge the machine if manual charge is selected.

ACCUMULATED TIME RANGE IS 0 – 59 SECONDS

This selection allows you to determine how much rinse time you wish to expire before a detergent recharge occurs. Use the numbered keys to enter the desired value and Press ENTER when done. Press MENU[®] to move through this menu selection.

2	*** DISPENSER *** SETUP ROUTINES	Continued
	SET CHARGE TIME CHOOSE 0:01 – 3:59	This selection allows you to enter the length of time that the detergent pump will run, when the activation signal
		is received (or the INITIAL CHARGE button is depress). Use the numbered keys to enter the desired value and press ENTER when done. Press MENU to move through this menu selection.
	SET RECHARGE TIME CHOOSE 0:01 – 3:59	This selection allows you to enter the length of time that the detergent pump will run when the rinse activation signal is received (or the Rinse pressure switch is closed). Use the numbered keys to enter the desired value and press ENTER when done. Press MENU [®] to move through this menu selection.
	USING HOBART AM-14 = 1 = NO 2 = YES	If connected to a Hobart AM-14 (or similar) machine, press 2 for YES. Otherwise, press 1 for NO and press MENU 4 to end this menu selection.

If YES, the DataPlus will "recharge" the tank with the initial charge amount anytime the machine is refilled with fresh wash water. In addition to setting this selection to YES, the WASHER TYPE must be set to DOOR, and the INITIAL CHARGE must be set to AUTO.

concentration at "normal" wash tank temperature. W temperature does affect conductivity of the solution. As w temperatures change, the digital number of concentration of can be affected. However, concentration itself will remain state	CONCENTRATION AT 60	45	This selection allows you to enter the concentration level. Us number keys to enter the desired value, be sure to s	se et
			concentration at "normal" wash tank temperature. Was temperature does affect conductivity of the solution. As was temperatures change, the digital number of concentration un can be affected. However, concentration itself will remain stable	sh sh ts

DET. CONC. DISPLAY = OFF 1 = OFF 2 = ON	This selection allows you to determine if the concentration levels are to be displayed during normal operation. Use numbered keys
	to enter the correct selection and press $\text{MENU} {\ensuremath{\mathbb Q}}$ to move through this selection.

2 *** DISPENSER *** SETUP ROUTINES	Continued	
PUILSE FEED PERCENT =		
RANGE IS 0 – 99	This menu selection allows you to enter the concentration level at which the pulse feed feature will activate. Use the numbered keys to enter the desired value and press ENTER when done. Press MENU \oplus to move through this menu. The percentage that is entered determines when the UDP will begin to Pulse Feed. For example, if 10% is entered, UDP will feed continuously up to 90% of the selected concentration setting (or within 10% of the setpoint) and will then pulse feed until the setpoint is achieved.	

DET. FEED LIMIT = 1 = OFF 2 = ON	Limiting the continuous feeding of detergent reduces the possibility of chemical overuse. Use the number keys to enter the
	desired value and press ENTER when done.

This section allows you to terminate detergent feed when the detergent alarm delay time has counted down twice its value. For example, if the SET ALARM DELAY value (as set below) is 1:30 sec, then the Data Plus will terminate detergent feed after 3:00 min (or twice the set value). If you select feed limit OFF, Data Plus will continue to feed detergent until the setpoint is satisfied. Feed limit should be used on all conveyor or flyte-type machines.

SET ALARM DELAY = __:__ RANGE IS 0 - 3:59 MUNITES

This selection allows you to determine the length of the delay time before the detergent alarm is activated. Use the number keys to enter the desired value then press ENTER when done.

Calculate the alarm delay period by starting with a fresh tank of water and time how long it takes the Data Plus to achieve the concentration setpoint. Enter this value as your delay time.

For screen feed detergent, add 25% to 35% to this value to compensate for detergent hardening during periods of nonuse. For single-rack machines, set the alarm delay of 10 seconds *less* than the wash cycle time.

PROBE ALARM 1 = OFF 2 = ON	This menu selection allows you to decide whether the probe alarm will be active. Use the numbered keys to enter the desired
	value and press MENU $\$ to move through this menu.

This function is designed to alert the operator to a probe condition that affects results or detergent consumption. Variable probe conditions such as scale can insulate the probe tips and inhibit the sensitivity of the probe, causing over-consumption of detergent and associated wash result problems. If a probe wire is disconnected or damaged, the Data Plus will recognize this as a probe failure also. Data Plus will log the event in the report with the probe alarm in the on or off state.

3 *** DISPENSER *** REPORT SETUP ROUTINES	 Change Washer Make And Model Set Shift Times Change Product Costs Change Report Name 			
SET MAKE OF MACHINE MAKE	This menu selection allows you to enter the make (manufacturers name) of the wash machine. Using the SCROLL and number keys enter the new data and press ENTER. Press MENU \oplus to move through this menu. (Max of 10 characters.)			
SET MODEL OF MACHINE MODEL	This menu selection allows you to enter the model number of the wash machine. Use the SCROLL and number keys of enter the new data, and press ENTER when done. Press MENU \oplus to move through this menu. (Max of 10 characters.)			
SHIFT START #1 06:00 #2 11:00 #3 17:00	This menu selection allows you to enter shift times. Use the number buttons to enter the shift start times, then press ENTER. Time must be in military format (i.e. 13:00 = 1:00 PM) Press the MENU ♀ button to move on to the next menu selection.			
SET SHIFT NAME SHIFT #1	This menu selection allows you to enter the shift names (i.e. Breakfast, Lunch, Dinner, etc.) for the report. Use the SCROLL and number keys to enter the new data, and press ENTER when done. Press MENU \oplus to move through this menu selection.			
CHANGE PRODUCT COST ? YES OR NO	Pressing YES allows you to change the cost for the product. Use the SCROLL and numbered keys to enter the new data, and press ENTER. Press MENU & to move through this menu.			

DETERGENT \$0.00 / GAL If you enter YES, you can change the cost for each chemical. Select each pump to change. (Use the SCROLL and number keys to enter the data, and press ENTER when done). Press the MENU \oplus button to move through this menu selection.

3 *** DISPENSER *** REPORT SETUP ROUTINES	Continued	
SET REPORT NAME ? PRESS YES OR NO	This selection allows you to enter the report name. Pressing NO advances through the menu. Press YES then enter the new report name and press ENTER. Press MENU \oplus when finished. Max of 46	
YES NO	characters.	
SET DISPLAY NAME	This menu selection allows you to change the name on the display (what shows on the display when the system is idle).	
	the numbered keys to enter the new name and press ENTER. Press MENU I to move through this menu. Max of 24 characters.	
WATER HARDNESS = GRAINS —	This menu selection enables you to enter the number of GRAINS of hardness (for report purposes). Press ENTER when done, then MENU & to move through this menu	

4 *** DISPENSER *** MAINTENANCE SCHEDULE DISPENSER INSTALLED 00/00/00	 Date Dispenser Installed Date Conductivity Probe Installed Date Squeeze Tube Last Changed Date Squeeze Tube Last Lubed This menu selection allows you to set the installation date. Use the number buttons to set the date, then press ENTER. Press the MENU & button to move on to the next menu selection.
DISPENSER BATTERIES CHANGED 00/00/00	This menu selection allows you to enter the date that the batteries in the dispenser were last changed. Use the number buttons to set the date, then press ENTER. Press the MENU & button to Note: This is for older dispensers only.
SQUEEZE TUBES LAST LUBED RINSE 00/00/00	This menu selection allows you to set the date that the squeeze tubes were last lubed. Use the number buttons to set the date, then press ENTER. Do this for each pump in the system Press the MENU $\$ button to move on to the next menu selection.
	The DETERGENT option will only be displayed if the type of detergent is LIQUID (as determined in the SETUP ROUTINES).
SQUEEZE TUBES CHANGED RINSE 00/00/00	This menu selection allows you to set the date that the squeeze tubes were last changed. Use the number buttons to set the date, then press ENTER. Do this for each pump in the system Press the MENU $\$ button to move on to the next menu selection.
	The DETERGENT option will only be displayed if the type of detergent is LIQUID (as determined in the SETUP ROUTINES).
COND PROBE INSTALLED 00/00/00	This menu selection allows you to set the probe installation date. Use the number buttons to set the date, then press ENTER. Press the MENU I button to move on to the next menu selection.

5 *** DISPENSER *** CALIBRATING ROUTINES

- Calibrate Chemical Amounts
- Set Pump Flow Rates
- Set Dry Detergent Container Feed Time



Calibrating dry detergents is performed on page 21 (in the TIME PER CONTAINER section).

CALIBRATION – HOLD PRIME UNTIL 1 OUNCE DISPENSED

For each liquid chemical, depress the corresponding PRIME button until one ounce of chemical has been dispensed. The Data Plus will calculate the flow-rate based on how long it takes to dispense one ounce.

Calibrating rinse/sanitizer is performed below.

CALIBRATING RINSE/SANITIZER FOR DOOR OR CONVEYOR MACHINES –

With the rinse/sanitizer lines primed, fill a container with one ounce of product and place the container under the suction tube of the pump. Disconnect the rinse, sani signal from the Data Plus dispenser (terminals are marked Rinse). Activate the rinse solenoid on the machine, then depress the RINSE PRIME OR SANITIZER PRIME button until the container with one ounce of product is empty.

Optional Calculation:

- a) 3 ml dispensed/15 sec. Rinse cycle time = .20 ml/second dispensed
- b) .20 ml/second dispensed X 60 seconds = 12 ml/minute flow rate
- c) 12 ml/minute flow / 29.6 ml/oz = .40 oz/minute flow rate (in ounces)
- In this example, enter a flow rate of 0.40 OZ/MIN

FLOW RATE PER MINUTE DETERGENT —.— OZ/MIN	This selection allows you to view the flow rate for each pump. The Data Plus dispenser will perform the		
	mathematical calculations necessary to establish flow rates per minute.		

Depress the MENU & button to view the AUTOCALIBRATE screen in order to enter a value for each pump.



6 *** DISPENSER *** ON SCREEN REPORTS ON SCREEN REPORTS ? PRESS: YES OR NO	 On Screen Reports View Concentration And Temperature View Shift Pump Time Shift Alarm Total This selection allows you to view report information for a given period. Pressing NO moves you thru this menu selection.		
 (Selecting NO permits you to view information pertaining to the current shift the shift that is presently in the kitchen). Current shift data will not be ogged onto the report until the current shift ends.		
START DATE MO 01 DA 01 END DATE MO 12 DA 31	Once selected, the system will ask for the start and end dates (the date range) of the desired report information. Use the number keys to enter the information and Press ENTER.		
SORTING DATA ***PLEASE WAIT***	Once selected, the data in the system will be sorted for viewing. After approximately a minute, this screen will show COMPLETE; pressing MENU & to continue thru this menu selection		
VIEW TOTAL RACKS? PRESS YES OR NO	This selection allows you to view cumulative rack information. Pressing NO allows you to move through this menu selection.		
SHIFT RAC	1The screen will show the selected information press MENU ϑ to view information for each shift, then press MENU ϑ to move through this menu selection.		

6 *** DISPENSER *** ON SCREEN REPORTS	Continued		
VIEW PUMP ON TIME: PRESS YES OR NO	This selection allows you to view cumulative pump time information Pressing NO allows you to move through this menu selection.		
YES NO			
SHIFT1 DE RIN: SA	T: H/M ANI:	This screen will show the information. Press MENU \oplus to view information for each shift, then press MENU \oplus to move through this menu selection.	
TEMP ALARM TOTALS? PRESS: YES OR NO	This selection al information resultin allows you to move	This selection allows you to view cumulative pump alarm information resulting from temperature range violation. Pressing NO allows you to move through this menu selection.	
SHIFT1 W RIN H 0000	SH H 0000) L 0000	This screen will show the selected information. Press MENU ♣ to view information for each shift, then press MENU ♣ to move through this menu selection.	
LOW LEVEL ALARM TOTALS? PRESS: YES OR NO	This selection al information resultir lows you to move th	lows you to view cumulative pump alarm ng from low level occurrences. Pressing NO al- hrough this menu selection.	
SHIFT1 D RINSE	ETER SANI	This screen will show the selected information. Press MENU ♣ to view information for each shift, then press MENU ♣ to move through this menu selection.	
DRAIN AND IDLE TOTALS? PRESS: YES OR NO	This selection allow probe occurrence through this menus	ws you to view cumulative wash tank drains and information. Pressing NO allows you to move selection.	
SHIFT1 D IDLE	RAIN	This screen will show the selected informa- tion. Press MENU \oplus to view information for each shift, then press MENU \oplus to move through this menu selection.	

6 *** DISPENSER *** ON SCREEN REPORTS	Continued		
VIEW PRODUCT USAGE PRESS: YES OR NO	This selection allo lows you to move	This selection allows you to view product usage. Pressing NO allows you to move through this menu selection.	
DETERGENT GALS C	BREAKFAST COST\$	This screen will show the selected informa- tion. Press MENU ♣ to view information for each chemical on every shift, then press MENU ♣ to move through this menu selec- tion.	
If the detergent is solid or powder, the liquid value will be replaced by a CONT value – the amount of chemical used out of the CONTainer.			
VIEW CONCENTRATION AND TEMP? PRESS: YES OR NO	This selection allo ture information. menu selection.	ws you to view current conductivity and tempera- Pressing NO allows you to move through this	
CONCENT RINSE	WASH TEMP	If you pressed YES, current conductivity and temperature information will be displayed. Press MENU \oplus to move this menu selection.	
VIEW SHIFT PUMP ON TIME? PRESS: YES OR NO This selection allows you to view current alarm information. Presing NO allow you move through this selection. YES NO			
DETERGENT RIN: S/	.: MIN/SEC ANI:	If you press YES, current pump time informa- tion will be displayed. Press MENU \clubsuit to move through this selection.	
SHIFT ALARM TOTALS? PRESS: YES OR NO	This selection allo NO allows you to r	ws you to view current shift pump times. Pressing move through this menu selection.	
WSH TEMP HI_ RIN TEMP HI_	LO LO	If you pressed YES, current alarm information will be displayed. Press MENU $\[mathcal{J}$ to move through this selection.	
GO TO NEXT PAGE			

6 *'	** DISPENS ON SCREEN F	SER *** REPORTS	• Con	tinued
Sł	HIFT MACHINE PRESS: YES	ON TIME? OR NO	This menu select information. Press	ion allows you to view current machine on time ing NO allows you move through this selection.
	YE	5 NO		
		MACHINE C : MIN	N TIME I/SEC	If you pressed YES, current on time informa- tion will be displayed. Press MENU \clubsuit to move through this selection.
	SHIFT EFFIC PRESS: YES	IENCY? OR NO	This menu selecti information. Press	on allows you to view relative machine efficiency ing NO allows you move through this selection.
		YES NO		
		SHIFT EFFIC PERCENT	IENCY =	If you pressed YES, current relative efficiency information will be displayed. Press MENU to move through this selection.

*** *** DISPENSER 7 Print Reports **PRINTING FUNCTIONS**

Select Report Ranges By Date

BEFORE PRINTING, MAKE SURE

- THE DATA PLUS UNIT IS CONNECTED TO A PTM-6000,
- (if onsite) THE PRINTER IS CONNECTED TO THE PTM-6000,
- (if onsite) THE PERFORATION (SPLIT) IN THE PAPER IS IN LINE WITH THE PRINTHEAD,
- (if onsite) PAPER WILL BE ABLE TO FLOW FREELY THRU THE PRINTER
- (if onsite) THE PRINTER "ON" LIGHTS ON.

PRINT-> 1 = SETUPThis selection allows you to print the desired report. Make the 2) SUM 3) CYCLE 4) 7 DAY correct choice by pressing the corresponding number on the key pad.

START DATE END DATE	MO 01 DA 01 MO 12 DA 31	If you choose SUM, CYCLE, or 7-DAY, you will be asked to select the time period the report will cover. Enter the time period dates, then press ENTER.	
		If you choose 7-DAY, a seven-column report will be printed with the days of the week heading each column. Ensure that the START DATE entered is a Sunday.	

DIRECT PRINT -> 1) PRINTER 2) FILE	This selection allows the user to decide whether the information should be directed to the printer or to the file memory of the PTM-
	6000 ITSELF. Use the number keys to enter the correct choice.

If you select PRINTER, the information will be directed to the printer, but will not be stored in memory of the PTM-6000. If you select FILE, directing the print to the PTM permits off-site printing of reports (if you have a terminal device, I.e. a personal or palmtop computer). For remote printing, please consult the PTM-6000 installation manual.

The PTM-600 has a fixed file capacity. If you select to print off-site, it is recommended that you print all files in the PTM-6000. If the PTM-6000 is full, the report memory will be deleted. Files printed to the PTM will be listed in the off-site terminal device by date and time.

7 *** DISPENSER *** PRINTING FUNCTIONS	Continued		
INCLUDE PRODUCT COSTS ?	This selection allows you to choose if you want product costs to be included on the printed report. This prompt will only appear if "PRINTER" is chosen in the previous step.		
YES NO			
ASSURE PTM-6000 THEN PRESS EN	READY ITER	This selection allows you to check and see if the PTM-6000 is connected to the Data Plus, and if the printer is connected to the PTM.	
PTM-6000 NOW PRO	CESSING	This message indicates that your request is being processed. If you get an error message	
		that the PTM is not responding, check the cable connection between the PTM and the Data Plus for loose jacks, or damage to the cable.	

DISCLAIMER

Knight Inc. does not accept responsibility for the mishandling, misuse, or non-performance of the described items when used for purposes other than those specified in the instructions. For hazardous materials information consult label, MSDS, or Knight Inc.

WARRANTY

All Knight controls and pump systems are warranted against defects in material and workmanship for a period of ONE year. All electronic control boards have a TWO year warranty. Warranty applies only to the replacement or repair of such parts when returned to factory with a Knight Return Authorization (KRA) number, freight prepaid, and found to be defective upon factory authorized inspection. Bearings and pump seals or rubber and synthetic rubber parts such as "O" rings, diaphragms, squeeze tubing, and gaskets are considered expendable and are not covered under warranty. Warranty does not cover liability resulting from performance of this equipment nor the labor to replace this equipment. Product abuse or misuse voids warranty.

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