ASR's Quick Reference Guide for Premier B & C

DPT Controller Board DIP Switch Position Descriptions

Position	Status	Controller Board DIP Switch Position Description
1	ON	19,200 BPS Communication Rate - UDC Comm2 Port
	OFF	9600 BPS Communication Rate (INSIGHT DPT only)
2	ON	DPT Dispenser address = 1 (side A) - UDC Comm2 Port
	OFF	DPT Dispenser address = 2 (side B) - UDC Comm2 Port

3 - 7	3	4	5	6	7	Addresses 1 - 16
	ON	ON	ON	ON	ON	1
	OFF	ON	ON	ON	ON	2
	ON	OFF	ON	ON	ON	3
	OFF	OFF	ON	ON	ON	4
	ON	ON	OFF	ON	ON	5
	OFF	ON	OFF	ON	ON	6
	ON	OFF	OFF	ON	ON	7
	OFF	OFF	OFF	ON	ON	8
	ON	ON	ON	OFF	ON	9
	OFF	ON	ON	OFF	ON	10
	ON	OFF	ON	OFF	ON	11
	OFF	OFF	ON	OFF	ON	12
	ON	ON	OFF	OFF	ON	13
	OFF	ON	OFF	OFF	ON	14
	ON	OFF	OFF	OFF	ON	15
	OFF	OFF	OFF	OFF	ON	16
	3	4	5	6	7	Addresses 17 - 32
	ON	ON	ON	ON	OFF	17
	OFF	ON	ON	ON	OFF	18
	ON	OFF	ON	ON	OFF	19
	OFF	OFF	ON	ON	OFF	20
	ON	ON	OFF	ON	OFF	21
	OFF	ON	OFF	ON	OFF	22
	ON	OFF	OFF	ON	OFF	23
	OFF	OFF	OFF	ON	OFF	24
	ON	ON	ON	OFF	OFF	25
	OFF	ON	ON	OFF	OFF	26
	ON	OFF	ON	OFF	OFF	27
	OFF	OFF	ON	OFF	OFF	28
	ON	ON	OFF	OFF	OFF	29
	OFF	ON	OFF	OFF	OFF	30
	ON	OFF	OFF	OFF	OFF	31
	OFF	OFF	OFF	OFF	OFF	32

8	ON	4,800 BPS Comm. Rate - Site Controller Comm 1 Port
	OFF	9,600 BPS Comm. Rate - Site Controller Comm 1 Port

DPT Controller Board LEDs

LED #	Color	Signal Active When LED is ON
1	Red	Serial Data received from Cash Acceptor
2	Green	Serial data transmitted to Cash Acceptor
3	Red	Diagnostic test signal defined by software
4	Red	Receive signal (RS-485) site controller port J4
5	Green	Transmit signal (RS-485) site controller port J4
6	Red	Receive signal (RS-485) UDC port J5
7	Green	Transmit signal (RS-485) UDC port J5
8	Yello-w	+5VDC Logic Power
9	Green	Debit module, transmit data (INSIGHT DPT only)
10	Red	Debit module, receive data (INSIGHT DPT only)

CPU Board DIP Switch Position Description

Position	Status	CPU Board DIP Switch Position Description
1	ON	Sales halt if console comm. interrupted > 1/2 second.
	OFF	Sales will not halt if console communication is interrupted.
2	ON	For VISION, MEMS IV, MEMS V, VX100, VXDHC, and model 83 DHC dispenser controller (cash/credit protocol).
	OFF	For MEMS II and MEMS III consoles (1 price per product).
3	ON	Unit of volume is GALLONS.
	OFF	Unit of volume is LITERS.
4	ON	Blanking of first 0.009 gallons or 0.034 liters (hose dilation).
	OFF	Calibration, no blanking. For blenders, this disables all pulser and blend control related errors.
5	ON	Simultaneous programming for dispenser sides A and B.
	OFF	Independent programming for dispenser sides A and B.
6	ON	Dual phase pulser operation.
	OFF	Single phase operation (phase 0 only).
7	ON	Ignores console slow flow offset. Uses F18 setting.
	OFF	Uses console slow flow offset value, not more than 2.5 units.
8	ON	Not used.
	OFF	Used for all Premier dispensers.

Computer Board - TP1 Test Point Descriptions

Pin	Description	Pin	Description (DIP Sw 1: Off = 5 V, On = 0 V)
1	DC Common	8	DIP Switch Position 1
2	Not Used	9	DIP Switch Position 2
3	+5 VDC	10	DIP Switch Position 3
4	Future diagnostic	11	DIP Switch Position 4
5	Future diagnostic	12	DIP Switch Position 5
6	Future diagnostic	13	DIP Switch Position 6
7	Future diagnostic	14	DIP Switch Position 7

CPU Board LEDs

LED #	Color	Signal is Active When LED is ON
1	Red	Watchdog Reset has occured
2	Red	Any motor ON
3	Red	Any valve ON
4	Red	AC power present

Interface Board - TP2 Test Point Descriptions

Pin	Description	Pin	Description
1	DC Common	8	+5 VDC (pulser) 4.75 - 5.25
2	Factory Use Only	9	+VDC1 (8.5 - 15 VDC)
3	+V Battery (8 - 11 VDC)	10	TXD RS-485 transmit data
4	+5 VDC (4.75 - 5.25 VDC)	11	RXD RS-485 receive data
5	+12 VDC (10.8 - 13.2 VDC)	12	TTC Talk to Console
6	VBB Battery backup (4.75 - 5.25 VDC)	13	TTD Talk to Dispenser
7	VREF - pulser op amp (2.462 - 2.538 VDC)	14	+8 VDC Multiplex Bd. power (7 - 11 VDC)

Interface Board LEDs

LED #	Color	Signal Active When LED is Flashing
1	Yellow	TTC, Communications to the console
2	Green	TTD, Communication to the dispenser
3	Green	RXD, receiving internal data, RS-485
4	Red	TXD, transmitting internal data, RS-485

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All errors except 41, 42, 43, and 44 are reset by removing and replacing a nozzle, or by entering and exiting manager modes.

MGR MODE	Manager Mode Description
F01	Enter level 1 security code. View blend change counter and blend ratios **(Blenders only)**.
F02	Program / View mode setting speed, view number of non-zero sales.
F03 thru A02	View electronic totals. A01 and A02 are for blenders only.
F11	View comm. diagnostics, watchdog reset counter.
F12	Change shift and view number of shift changes.
F13	Enter level 2 security code, display number of level 2 entries with data changes.
F14	View / program level 1 security code.
F15	View / program level 2 security code.
F16	View / program prices, view pulses per unit volume.
F17	View / program maximum delivery.
F18	View / program slow flow offset.
F19	View / program dispenser function code. View keypad start button / lift lever start status.
F20	Reset running totals.
E01	Enter level 3 security code. View level 3 data change counter.
E02	View / program level 3 security code.
F21	View / program limits for dispenser errors.
F22	View / program decimal point locations.
F23	View / program address of sides A or B, number of products per side, number of sides, number of hoses per side and dispenser operation type.
F24	Allow / disallow dispenser presets.
F25	View / program leak detector delay, battery backup time, and price change mode.
F26	View / program fuel blend ratio. **(Blenders Only)**
F27	View / program no pulse time-out and lift lever / start button programming. View / program icons enabled setting (Premier B). View valve control setting.
F28	View / program product (hose) assignments.
F29	Program dispenser keypad button assignments.
F96	View dispenser error, state, and termination code histories. For more information, see Programming manual, Form 5871.
F97	Check operator keypads and nozzle boot switches.
F98	Initiate product selection keypad and display diagnostics & diagnostics mode on DPT.
F99	Display software date code, CRC code, and ROM CRC diagnostic test results - P (pass) or F (fail).

ATTENTION!

View the termination code history in Mode F96 to correctly diagnose dispenser problems.

ERROR CODE	DESCRIPTION OF ERROR
ERR 02	The security code entered in mode F13 or E01 is invalid.
ERR 05	A memory (RAM) test failed on power up.
ERR 08	A low battery is detected.
ERR 09	A critically low battery is detected.
ERR 3x (Err 31, 32, 33, & 34) **(Non-Blenders)**	The number of dispenser errors for hose (x) has reached the dispenser error limits. The error is recorded in mode F96 error history record and appears in the volume display as ERR 80 during "run" mode.
ERR 4x (Err 41, 42, 43, & 44)	ERR 4x occur after six consecutive bad sales on a particular product. ERR 41 and 42 are for blenders.
ERR 11 or ERR 12 **(Blenders)**	Product 1 (ERR 11) or product 2 (ERR 12) used for blending is dispensing too slowly.
ERR 13 or ERR 14 **(Blenders)**	Product 1 (ERR 13) or product 2 (ERR 14) used for blending is not dispensing.
ERR 15 or ERR 16 **(Blenders)**	Product 1 (ERR 15) or product 2 (ERR 16) used for blending is uncontrollable because of severe pressure fluctuations.
ERR 18 **(Blenders)**	Product 2 is leaking into product 1 when only product 1 is called for.
ERR 19 **(Blenders)**	Product 1 is leaking into product 2 when only product 2 is called for.
ERR 20 **(Blenders)**	No communication with blend co-processor.
ERR 21 or ERR 22 **(Blenders)**	The number of dispenser errors for product 1(ERR 21) or product 2 (ERR 22) has reached the dispenser error limit. The sale is terminated as a bad sale. The error is recorded in mode F96 error history record and appears in the volume display as ERR 80 during "run" mode.
ERR 23 or ERR 24 **(Blenders)**	Product 1 pulser (ERR 23) or product 2 pulser (ERR 24) is disconnected.
ERR 25 **(Blenders)**	The operator has attempted to dispense product from a blend hose with the blend ratio set to the default value (non).
ERR 26 **(Blenders)**	The blend ratio in the dispenser does not match the blend ratio in the console for that hose.
ERR 27	Upper limit on flow rate has been reached. Error occurs on extremely excessive flow rates.
ERR 49 or ERR 50	Blender co-processor error.
C LoSS	Communication is lost between the dispenser and the controller. Causes the volume display to flash "C LoSS". An ERR 71 is stored in the error history if the nozzle is deactivated while in a halt condition from the communication loss. The error can be viewed in Mode F96.
P Loss	When AC power to the dispenser electronics is lost, the dispenser software causes the volume display to flash "P LoSS". An ERR 72 is stored in the error history if the nozzle is deactivated while in a halt condition from the communication loss. The error can be viewed in Mode F96.
ERR 80	An ERR 21, 22, 31, 32, 33, or 34 has occured.