

	Error Codes 23 November 2015		Encore 500, S, 700 S Encore CNG		Associated Service Bulletin
CODE	DESCRIPTION	SEVERITY	MAKE	SOLUTION	SB
E1	<i>W&M RAM Database Corrupted</i>	SUPERMAJOR	✓	-Check Configuration & Hardware -Replace PCN battery (part number Q12674-01). If E1 re-occurs replace PCN To clear.	
E2	<i>Application RAM Database corrupted</i>	SUPERMAJOR	✓	Press F1 and F2 on the manager keypad to reboot the dispenser. If error persists replace the PCN	
E3	<i>LON Configuration Error</i>	SUPERMAJOR	✓	Check Software Compatibility, LON Software, LON Node Connections then press F1 and F2 on the manager keypad to reboot the dispenser	
E4	<i>One or more tasks not started</i>	SUPERMAJOR	✓	Check Door Node, Door Node Cables, other LON Bus Cables, and PCN battery and all software configurations for the dispenser. Press F1 and F2 on the manager keypad to reboot the dispenser.	

E5	Encore 500: Soft Coldstart by Jumper Encore CNG: Soft Coldstart with Manager Keypad (CC59, FC1)	SUPERMAJOR	✓		Information Only. Remove the coldstart jumper (for Encore 500 and Encore S) and press F1 and F2 on the manager keypad to reboot the dispenser. Once restarted, verify all configuration parameters and program as necessary.	
E6	NV Data Mismatch	SUPERMAJOR	✓		Verify configuration parameters of the dispenser, Door Node Addresses and LON cables. Press F1 and F2 on the manager keypad to reboot the dispenser.	
E7	Ecal Board Memory Error			✓	Press F1 and F2 on the manager keypad to reboot the dispenser.	
E8	Database not compatible with previous version	SUPERMAJOR	✓		Database Error at Startup, Re-program Parameters. Note: This only applies to older Encore Software.	
E9	Hardware Coldstart			✓	Information Only. Remove the coldstart jumper and press F1 and F2 on the manager keypad to reboot the dispenser. Once restarted, verify all configuration parameters and program as necessary.	
E10	New Software Version detected and Security Switch not open	SUPERMAJOR	✓		Press F1 and F2 on the manager keypad to reboot the dispenser and open the security switch immediately.	SB 1584 SB 2476
E12	Restore Calibration Factors from Door Node	SUPERMAJOR	✓		Press F1 and F2 on the manager keypad to reboot the dispenser and open the security switch immediately.	

11	Two-Wire Communications break	INFO	✓		This error accompanies the Two-Wire communications timeout associated with Command Code 53, Function Code 6. This indicates that either the CRIND/POS/Controller has stopped communicating with the pump or dispenser. This error alone indicates that hardware and wiring seem ok but that a controller has stopped communicating with the dispenser for the timeout period.	SB 2488
16	Preset Underrun	MEDIUM			Information Only	
20	Pulser Disconnected / SIP Magnet Dropout	MEDIUM, MAJOR, Configurable	✓	✓	<p>Check Pulser for Tampering, Check Pulser and Connections, Press F1 enter a security code and press F2 to reboot.</p> <p><i>Note: This error is medium in Encore CNG. In Encore 500, Encore S and Encore 700S, the severity of this error differs in different versions of software. Before 01.8.30, this was a Medium Error. From 01.8.30 to 02.9.21, this error was Major. In 02.9.72, this error level was configurable in Command Code 91, Function Code 30.</i></p>	SB 1370 SB 2464 SB 2540
24	Volume Unit Type Not Set	MAJOR	✓		Program Volume Unit Type in Command Code 71.	
25	Two-Wire/Standalone Changed	MAJOR		✓	Information Only.	
26	Invalid Calibration Factor	MEDIUM	✓	✓	Calibrate the Meter, Follow instructions on MDE-4281 for Encore 500, Encore S and Encore 700 S.	MDE-3804 MDE-4281 SB 2547
27	Two-Wire ID Side A Changed	MEDIUM		✓	Information Only.	

28	Two-Wire ID Side B Changed	MEDIUM		✓	Information Only.	
29	"Valve Stuck" / Initial Dispenser or Maximum No Flow Timeout	MEDIUM	✓	✓	In most cases this will be logged when a valid Initial Dispenser Timeout or Initial Dispenser Timeout has occurred due to no flow. If the issue persists, check the valve control board, and cables, valve cable, and valve.	
30	VaporVac Catastrophic Error	SUPERMAJOR	✓	✓	Troubleshoot Vapor Recovery System. Look for commonality problem for both sides first.	
31	DEF Freeze Warning	MAJOR -or- MEDIUM	✓		Information Only. Verify that DEF system is no longer frozen. Press F1 and F2 on the manager keypad to reboot the dispenser to clear the error. For Single Grade DEF, this is a MAJOR error. For a Master, Dual Master or 2 Grade Ultra-Hi with DEF, this is a MEDIUM error.	SB 2513 SB 2532 SB 2547
32	Maximum Authorize Time Expired Maximum Fill Time Expired	MEDIUM	✓	✓	Information Only. Error will be cleared at the end of transaction when the nozzle is returned to the dispenser.	
33	Stop Button Activated	MEDIUM	✓	✓	Information Only. Error will be cleared at the end of transaction when the nozzle is returned to the dispenser.	
35	Configuration Data Error	MEDIUM		✓		
36	Unit type changed	MEDIUM		✓	Information Only.	
37	Pin Code 1 Changed	MEDIUM		✓	Information Only.	
38	Pin Code 2 Changed	MEDIUM		✓	Information Only.	
40	Master Reset Jumper On	MEDIUM		✓		

41	Side Exists Option Changed	MEDIUM		✓		
42	Valve Not Open	MEDIUM	✓		Check Valve	
44	Pump Handle on at Power Up	MEDIUM	✓	✓	Information Only. Error will be cleared when the nozzle is returned to the dispenser.	
45	Minor Preset Overrun Error	MEDIUM		✓	Information Only. Error will be cleared at the end of transaction when the nozzle is returned to the dispenser.	
46	Minimum Preset Limit	MEDIUM	✓		Information Only. Error will be cleared at the end of transaction when the nozzle is returned to the dispenser.	
50	POS Communications Lost (Disconnected)	MEDIUM	✓	✓	Check POS/Controller Functionality, wiring and connection to the PCN.	
99	W&M Database CRC Incorrect	SUPERMAJOR	✓		Warmstart unit, Jumper Coldstart if nessecary	
100	Application Flash Hash Invalid	SUPERMAJOR	✓		Reload the Pump Application.	
4307	Blend Ratios Not Programmed	SUPERMAJOR	✓	✓	Program Blend Ratios in Command Code 72.	
4308	No Blend Table	SUPERMAJOR		✓	Check program, valve board and configuration	
4311	Low Porduct Low Flow	ENCORE - MEDIUM CNG - SUPERMAJOR	✓	✓	Check valves and pulsers	
4312	High Product Low Flow	ENCORE - MEDIUM CNG - SUPERMAJOR	✓	✓	Check valves and pulsers	
4313	Low Product No Flow	ENCORE - MEDIUM CNG - SUPERMAJOR	✓	✓	Check valves and pulsers	
4314	High Product No Flow	ENCORE - MEDIUM CNG - SUPERMAJOR	✓	✓	Check valves and pulsers	
4315	High Product Contaminated by Low	ENCORE - MEDIUM CNG - SUPERMAJOR	✓	✓	Check valves and pulsers	
4316	Low Product Contaminated by High	ENCORE - MEDIUM CNG - SUPERMAJOR	✓	✓	Check valves and pulsers	
4320	Valve Configured for but Not Responding	MEDIUM	✓		Check Valve Connections for Blending	
4321	Valve Stuck	MEDIUM	✓		Check Valve Functionality	

4322	Valve Board Not Connected	MEDIUM	✓		Check connectors from PCN to valve interface board. Check valve connections to valve interface board. Check 24V input to the Valve interface board. Check JP6 on PCN. Replace Valve Board if problem persists. Possible valve coil or valve connection issue. Ultra Hi fuse on valve interface board, check 120 VAC input to valve interface board, swap cable between valve interface and pump node, check satellite wiring (A12 wire) and master valve wiring, swap valve bd, swap valve coil, swap PCN.	
5037	Encore 500 Programming Entry Successful From Keypad Encore CNG: Totalizer corrupted	INFO	✓	✓	Encore 500: Information message indicating dispenser programming has been accessed with the access level granted specified in the log entry text Encore CNG: Press F1 and F2 on the manager keypad to reboot the dispenser to clear the error.	
5038	Programming Entry Failure from Keypad	INFO	✓		Information Only. Log message indicating that dispenser programming pin code was entered incorrectly.	
5039	Entry into Zmodem Serial Access Successful	INFO	✓		Information Only. Log message indicating that Zmodem serial access has successfully been unlocked and accessed by a remote PC successfully	
5047	Pulser: Reverse Flow Detected	MEDIUM	✓		Check pulser connection, diagnose valves, meter and check valves.	SB 2551
5049	Unauthorized Flow Detected	MEDIUM	✓		Check Entire System for Tampering. Diagnose that pulsers are connected in proper locations, valves are properly functioning and check valves are holding system pressure	

5050	Pulser: Invalid Pulser/Pulser Pattern Invalid	MEDIUM	✓	✓	Check pulser connections, cabling and PCN for defects. Repalce pulser if problem is persistent.	SB 2551
5054	SIP Pulser Calibration Switch Open	MEDIUM		✓	Close Switch on SIP.	
5056	Security Switch On	MEDIUM*	✓	✓	Close the security switch. Press F1 and F2 on the manager keypad to reboot the dispenser to clear the error. <i>NOTE: In dispenser software v03.1.03 and before, this is a SUPERMAJOR error.</i>	SB 1584 SB 2476
5062	Date/Time Changed	INFO	✓		Information Only. Log message indicating that the Date or Time has been changed by dispenser programming or two-wire special function.	
5065	STP Board 1 Disconnected	MEDIUM	✓		Check STP Board Connection	
5066	STP 1 Configured for but not detected	SUPERMAJOR	✓		Check STP Connection	
5067	STP 2 Configured for but not detected	SUPERMAJOR	✓		Check STP Connection	
5068	STP 3 Configured for but not detected	SUPERMAJOR	✓		Check STP Connection	
5069	STP 4 Configured for but not detected	SUPERMAJOR	✓		Check STP Connection	
5070	Vapor Recovery Option Enabled but Vapor Recovery Board Not Detected	SUPERMAJOR	✓		Check Vapor Recovery Board, connections and power supply.	
5072	VaporVac Board Not Detected But Option Enabled	SUPERMAJOR	✓		Check Vapor Recovery connections. Troubleshoot Vapor Recovery system if problem persists. Check Vapor Recovery power; Vapor Recovery interface and Vapor Recovery controller board. Press F1 and F2 on the manager keypad to reboot the dispenser to clear the error.	
5074	Vapor Reccovery Motor Not Responding	MEDIUM	✓		Troubleshoot and repair Vapor Recovery System.	

5075	Two-Wire Communications Port Framing Error	INFO	✓	Indicates a problem with Controller/POS/CRIND, Two-Wire Cabling, D-Box, Two-Wire Baud Rate, Hardware or POS/CRIND/Controller configuration. During a pump powerfail, this error can be reported with some controllers.	
5076	Two-Wire Communications Port Parity Error	INFO	✓	Indicates a problem with Controller/POS/CRIND, Two-Wire Cabling, D-Box, Two-Wire Baud Rate, Hardware or POS/CRIND/Controller configuration. During a pump powerfail, this error can be reported with some controllers.	
5077	Two-Wire Communications Port Overrun Error	INFO	✓	Indicates a problem with Controller/POS/CRIND, Two-Wire Cabling, D-Box, Two-Wire Baud Rate, Hardware or POS/CRIND/Controller configuration. During a pump powerfail, this error can be reported with some controllers.	
5078	Two-Wire Communication port UART error-Break error	INFO	✓	This error is normal when rebooting or powering down a dispenser due to the Two-Wire circuit losing power at shutdown. When to pump is running and power remains constant, diagnose Two-Wire cabling, reverse connection, D-Box for pump communications.	
5081	Air Sensor Not Connected But Option Enabled	MEDIUM	✓	Check Configuration in Command Code 98 and Connections if applicable.	

5091	ATC Configured but No Communication to ATC Hub(s)	SUPERMAJOR	✓	✓	ATC units only. Check Configuration in Command Code 91, Function Code 6 and Connection to ATC Node, T-Meter and IS Barrier. Press F1 and F2 on the manager keypad to reboot the dispenser to clear the error.	
5092	ATC Node detected, but option not set	SUPERMAJOR INFO	✓	✓	Check ATC configuration in Command Code 91, Function Code 6, restart the dispenser to clear the error. <i>Note: In older versions of pump software, this is an information only error and will not be displayed on the unit.</i>	
5098	ATC T-Meter Not Connected	SUPERMAJOR	✓		ATC units only. Check T-Meter Power and Connection to the ATC Node. Press F1 and F2 on the manager keypad to reboot the dispenser to clear the error.	
5100	ATC Number of meters exceeds number of probes	MEDIUM	✓		ATC units only. Bad ATC probe, missing ATC probe, improperly configured unit type (Command Code 90) or fuel density setting (Command Code 75).	
5101	No Pulse Train Detected from T-Meters	SUPERMAJOR	✓		ATC units only. Replace T-meter PCB.	
5111	Display Board Communication Failure	MAJOR	✓		Check Display Board or Door Node Hardware, Cables and Connections.	
5113	Display Board Not Preset	MAJOR		✓	Check display board or Door Node, cabling and address setting.	
5115	Door Node Download Error	MAJOR	✓		Check Door Node Connections, Door Node Address Jumpers, LON Connections and Test Door Node. Replace Door Node if problem persists. Press F1 and F2 on the manager keypad to reboot the dispenser to clear the error.	

5116	Door Node NV Data Download Incomplete	MEDIUM	✓		Check Door Node Connections, Door Node Address Jumpers, LON Connections and Test Door Node. Replace Door Node if problem persists.	
5118	PPU Board Communication Failure	MEDIUM	✓		Check PPU Connections and Configuration.	
5120	PPU Board Pump Handle Not Connected Correctly	MEDIUM	✓		Check PPU Connections and Configuration.	
5121	PPU Grade Select Button Not Collected	MEDIUM	✓		Check PPU, Grade Select Input and Door Node.	
5122	PPU Board Grade Select Button Stuck	MAJOR	✓		Replace Grade Select Connection or PPU Hardware.	
5124	Density, Transaction or Preset Display Communications Failure	MEDIUM		✓	Check Connections and Configuration.	
5130	Display Board Errors	MAJOR		✓	Check Display Board Hardware and Grounding.	
5131	PPP Keypad Option Set but Not Present	MEDIUM	✓		Check Preset-Keypad, Connections and Configuration (Command Code 22 and Command Code 91, Function Code 1)	
5134	Density Display Communication Failure	MEDIUM		✓	Check Density Display Connection and Configuration.	
5135	Preset Display Communication Failure	MEDIUM		✓	Check Preset Display Connection and Configuration.	
5136	Transaction Display Communication Failure	MEDIUM		✓	Check Transaction Display Connection and Configuration.	
5137	Stop Button Not Detected but Option Enabled	MAJOR	✓		Check Connection and Configuration (Command Code 91, Function Code 5)	
5139	Stop Button Stuck	MAJOR	✓		Check Keypad Hardware and Connection. Press F1 and F2 on the manager keypad to reboot the dispenser to clear the error.	
5140	Push to Start Not Detected But Option Enabled	SUPERMAJOR	✓		Check Connection and Configuration (Command Code 91, Function Code 2)	

5142	Push to Start Button Stuck	MAJOR	✓		Check Keypad Hardware and Connection. Press F1 and F2 on the manager keypad to reboot the dispenser to clear the error.	
5174	Totalizer Node Communications Failure	MAJOR		✓	Check Totalizer Node and Connections. Press F1 and F2 on the manager keypad to reboot the dispenser to clear the error.	
5175	Totalizer Node Connected but Option Not Enabled	MEDIUM		✓	Check Totalizer Configuration.	
5183	Totalizer Present but No Return Pulse Detected	MEDIUM	✓		Check Totalizer, Display Board and Connections.	
5225	Fill Timeout	INFO	✓	✓	Fuelling exceeded maximum dispensing time value. Check setting of Command Code 53, Function Code 9.	
5230	Totalizer per Nozzle Corrupted	MAJOR		✓	Press F1 and F2 on the manager keypad to reboot the dispenser and open the security switch immediately.	
5239	Database Init Forced	INFO	✓		Pump node database was corrupted or initialized after door nodes were changed. Could also be a symptom of a bad battery.	
5240	Database Read Failure	INFO	✓		Information Only. Log message used for debugging reading from database and engineering use only.	
5241	Database Write Failure	INFO	✓		Information Only. Log message used for debugging writing to database and engineering use only.	
5254	Real-Time Clock - Invalid Data Field	INFO	✓		Check dispenser Date/Time. If Date/Time is incorrect, Press F1, enter Command Code 60 and program the Date and Time. Press F2 to restart the dispenser. Check Date/Time again, if incorrect replace the PCN battery or PCN.	
5300	PPU Value Changed	INFO	✓		Information Only. Indicates a PPU value has been changed from a POS or Forecourt Controller.	

5378	Door Node Configuration Not Received by Customer Interface	MEDIUM	✓		Check Software Compatibility.	
5412	Customer Interface Configuration Error	MEDIUM	✓		Check Software Compatibility.	
5413	Zero Price on PPU	MEDIUM	✓	✓	Check Configuration of POS, Configuration of Command Code 94, Price at POS, FCC or Command Code 20.	
5414	PPU Type Mismatch/PPU Type Changed	MAJOR	✓		Check that all PPUs connected to the Display are the same type. Press F1 and F2 on the manager keypad to reboot the dispenser to clear the error.	
5415	PPU Board Pump Handle Not Connected Correctly	MEDIUM	✓		Verify hardware connections for pump handle and grade select to PPU board assemblies.	
5416	Display Type Changed While Dispenser Running	MAJOR	✓		Verify proper display types, connections and hardware. Press F1 and F2 on the manager keypad to reboot the dispenser to clear the error.	
5535	Undefined Error	MEDIUM/MAJOR	✓		Warmstart pump, error was not logged correctly. If persists, check PCN battery and replace PCN.	
5600	Fuel Density not Set with VRC or ATC Enabled	SUPERMAJOR	✓	✓	Verify Density Setting for Grades in Command Code 75.	
5601	ATC Temperature Reading Out of Range	MEDIUM	✓		ATC units only. Damaged ATC probe or cable connection.	
5602	Door Node Software Updated bu Security Switch Not On	SUPERMAJOR	✓		Press F1 and F2 on the manager keypad to reboot the dispenser and open the security switch immediately.	SB 2476
5603	ATC Node Software Updated bu Security Switch Not On	MAJOR	✓		Press F1 and F2 on the manager keypad to reboot the dispenser and open the security switch immediately.	SB 2476
5604	ATC Probe Short Circuit	MEDIUM	✓	✓	Verify ATC Probe Hardware and Cabling.	
5606	ATC Node Subscription Failure	SUPERMAJOR	✓		Check ATC Hardware.	

5607	Door Node Subscription Failure	SUPERMAJOR	✓		Check Door Node Hardware.	
5608	Totalizer Node Subscription Failure	SUPERMAJOR	✓		Check Totalizer Node Hardware.	
5612	Door Open	INFO	✓		Informational Only. Log message that is logged when door switch is installed and the door was closed and now is open.	
5613	Pump Node Update with Data from Door Node	INFO	✓		Pump Database does not match what is in door nodes. Software forced Pump Node update from Door Nodes Data.	
5616	Pump and Door Node Match	INFO	✓		Indicates a startup process where PCN and both Door Node configurations match.	
5617	Door Closed	INFO	✓		Informational Only. Log message that is logged when door switch is installed and the door was opened and now closed.	
5721	Door Opened	INFO	✓	✓	Check Door Sensors. <i>NOTE: This can be made programmable to MEDIUM, MAJOR and SUPERMAJOR levels.</i>	
5801	CNG: Over Pressure Signal Detected	MAJOR		✓	Consult Encore CNG Documentation.	
5802	CNG: External Shock Sensor Active	SUPERMAJOR		✓	Consult Encore CNG Documentation.	
5804	CNG: No Flow Detected	MEDIUM		✓	Consult Encore CNG Documentation.	
5805	CNG: Pressure Too High	MEDIUM		✓	Consult Encore CNG Documentation.	
5806	CNG: Maximum Flow Rate Detected	MEDIUM		✓	Consult Encore CNG Documentation.	
5807	CNG: Maximum Mass Exceeded	MEDIUM		✓	Consult Encore CNG Documentation.	
5808	CNG: Calculated Delta Pressure Is Negative Value	MEDIUM		✓	Consult Encore CNG Documentation.	
5809	CNG: Maximum Pressure Limit Reached	MEDIUM		✓	Consult Encore CNG Documentation.	

5810	CNG: Temperature Out of Range	MEDIUM		✓	Consult Encore CNG Documentation.	
5811	CNG: Temperature Sensor Short Circuit	MEDIUM		✓	Consult Encore CNG Documentation.	
5812	CNG: Temperature Sensor Disconnected	MEDIUM		✓	Consult Encore CNG Documentation.	
5813	CNG: Pressure Out of Range	MEDIUM		✓	Consult Encore CNG Documentation.	
5814	CNG: Pressure Sensor Short Circuit	MEDIUM		✓	Consult Encore CNG Documentation.	
5815	CNG: Pressure Sensor Disconnected	MEDIUM		✓	Consult Encore CNG Documentation.	
5816	CNG: CNG Board Communications Failure	MEDIUM		✓	Consult Encore CNG Documentation.	
6002	IS Hub 1 Disconnected	MEDIUM		✓	Check wiring and hardware address of IS Hub, restart to recover.	
6003	IS Interface Disconnected	MEDIUM		✓	Check wiring from PCN to IS Interface board.	
6042	Vapour Recovery Monitoring System Stop (Vaporix Stop)	MEDIUM	✓		Check VRC 390/2 System and Reset Monitoring System	
6043	Vapor Recovery Alarm Side A	MAJOR	✓		Check VRC 390/2 System and Reset Monitoring System	
6044	Vapor Recovery Alarm Side B	MAJOR	✓		Check VRC 390/2 System and Reset Monitoring System	
6047	Vapour Recovery Board Detected But Option Disabled	SUPERMAJOR	✓		Check VRC 390/2 Connections and Configuration (Command Code 75 and Command Code 91, Function Code 14)	
6048	Vapour Recovery Service Terminal Connected	MEDIUM		✓	Disconnect Service Terminal from CPU Board.	
6081	Exceeded Maximum Flow Rate	MEDIUM		✓	Check Command Code 80 and Command Code 76, Function Code 2 (or Command Code 99), check hydraulics.	
6088	SIP/IS Pulser: Communications Lost With Pulser Device	MEDIUM		✓	Check Connections to Pulser Hub and Pulser, SIP Interface Board and SIP.	
6089	SIP/IS Pulser: Pulser Enable State Error	MEDIUM		✓	Pulser Already Enabled for Transaction and Enabled Again, Check Pulser.	

6090	SIP/IS Pulser: Too Many Pulsers Enabled	MEDIUM		✓	Check Hardware to Pulsers, Pulser Hub and Communications and Connections.	
6350	PPU Change Grade 1, Level 1	INFO	✓		Information indicating a PPU has changed from Dispenser Programming or Price Change over Two-Wire.	
6351	PPU Change Grade 1, Level 2	INFO	✓		Information indicating a PPU has changed from Dispenser Programming or Price Change over Two-Wire.	
6352	PPU Change Grade 2, Level 1	INFO	✓		Information indicating a PPU has changed from Dispenser Programming or Price Change over Two-Wire.	
6353	PPU Change Grade 2, Level 2	INFO	✓		Information indicating a PPU has changed from Dispenser Programming or Price Change over Two-Wire.	
6354	PPU Change Grade 2, Level 1	INFO	✓		Information indicating a PPU has changed from Dispenser Programming or Price Change over Two-Wire.	
6355	PPU Change Grade 2, Level 2	INFO	✓		Information indicating a PPU has changed from Dispenser Programming or Price Change over Two-Wire.	
6356	PPU Change Grade 2, Level 1	INFO	✓		Information indicating a PPU has changed from Dispenser Programming or Price Change over Two-Wire.	
6357	PPU Change Grade 2, Level 2	INFO	✓		Information indicating a PPU has changed from Dispenser Programming or Price Change over Two-Wire.	
6358	PPU Change Grade 2, Level 1	INFO	✓		Information indicating a PPU has changed from Dispenser Programming or Price Change over Two-Wire.	

6359	PPU Change Grade 2, Level 2	INFO	✓		Information indicating a PPU has changed from Dispenser Programming or Price Change over Two-Wire.	
6360	PPU Change Grade 2, Level 1	INFO	✓		Information indicating a PPU has changed from Dispenser Programming or Price Change over Two-Wire.	
6361	PPU Change Grade 2, Level 2	INFO	✓		Information indicating a PPU has changed from Dispenser Programming or Price Change over Two-Wire.	
8022	Encrypted Pulser: Encryption Failure on Enable	MEDIUM	✓		Check Encrypted Address (Command Code 84)	
8025	Encrypted Pulser: Serial Number Mismatch	MEDIUM	✓		Press F1 on the Manager Keypad. Enter Command Code 84, open Security Switch and press 1 to re-detect all Encrypted Pulsers. Close the security switch and press F2 to restart.	
8040	Encrypted Pulser: Clock or Data Communication Interrupted	MAJOR	✓		Reboot Dispenser, diagnose Pulser and Pulser Cabling.	
8041	Encrypted Pulser: Missing Data	MAJOR	✓		Reboot Dispenser, diagnose Pulser and Pulser Cabling.	
8042	Encrypted Pulser: Missing Clock	MAJOR	✓		Reboot Dispenser, diagnose Pulser and Pulser Cabling.	
8043	Encrypted Pulser: Missing Power	MAJOR	✓		Reboot Dispenser, diagnose Pulser and Pulser Cabling.	
8044	Encrypted Pulser: Invalid Data Packets (Checksum)	MAJOR	✓		Reboot Dispenser, diagnose Pulser and Pulser Cabling.	
8045	Encrypted Pulser: Lift-off Detection	MAJOR	✓		Reboot Dispenser, diagnose Pulser and Pulser Cabling.	
8046	Encrypted Pulser: Tamper Event	MAJOR	✓		Reboot Dispenser, diagnose Pulser and Pulser Cabling.	
8047	Encrypted Pulser: Pulser Power Loss	MAJOR	✓		Reboot Dispenser, diagnose Pulser and Pulser Cabling.	
8048	Encrypted Pulser: Watchdog Event	MAJOR	✓		Reboot Dispenser, diagnose Pulser and Pulser Cabling.	
8049	Encrypted Pulser: Software Fault	MAJOR	✓		Reboot Dispenser, diagnose Pulser and Pulser Cabling.	

8050	Encrypted Pulser: Sensor Failure	MAJOR	✓		Reboot Dispenser, diagnose Pulser and Pulser Cabling.	
65535	Undefined Error	MEDIUM MAJOR	✓		Warmstart pump, error was not logged correctly. If persists, check PCN battery and replace PCN.	