

Index	Value	Description	Comments
0-1	pHLevel	The current integer pH level. -- 256 x byte(0) + byte(1) (big endian encoding) / 100	Matches ScreenLogic
2-3	ORPLevel	The current ORP level. -- 256 x byte(2) + byte(3) (big endian encoding)	Matches ScreenLogic
4-5	pHSetpoint	The current pH setpoint -- 256 x byte(4) + byte(5) (big endian encoding) / 100	Matches ScreenLogic
6-7	ORPSetpoint		Matches ScreenLogic
8		Unknown	Packets have 0
9		Unknown	Packets have 0
10		Unknown	Packets have 0
11-12	pH Dose time	256 x byte(11) + byte(12) (big endian encoding) in seconds	
13		Unknown	
14-15	ORP Dose time	256 x byte(14) + byte(15) (big endian encoding) in seconds	
16-17	ph Dose volume	The units here are ambiguous 256 x byte(16) + byte(17) (big endian encoding)	
18-19	ORP Dose volume	The units here are ambiguous 256 x byte(18) + byte(19) (big endian encoding)	
20	pH Tank Level	The byte values are 1-7 and the actual level is byte(20) – 1. If the value is 0 the tank is not installed.	Subtract 1 from value to get number of bars.
21	ORP Tank Level	The byte values are 1-7 and the actual level is byte(20) – 1. If the value is 0 the tank is not installed.	Subtract 1 from value to get number of bars.
22	Saturation Index	f bit(8) is set then the value is negative (256 – byte(22))/ -100. Otherwise it is positive byte(22) / 100	Matches ScreenLogic
23-24	Calcium Hardness	256 x byte(23) + byte(24) (big endian encoding) in ppm	Matches ScreenLogic
25	Status 2	??????	Packets have 0
26	Cyanuric Acid		Matches ScreenLogic
27-28	Total Alkalinity	256 x byte(27) + byte(28) (big endian encoding) in ppm	Matches ScreenLogic
29	Salt Level/TDS	Byte(29) * 50	ScreenLogic shows N/A (I don't have salt water) byte 29 is 0x14
30	Water Flow		Always 0. When waterflow is off, no packets are received (Intellichem is turned off)
31	Temperature		Matches ScreenLogic
32	Alarms	Alarm bitmask the bits are decoded as follows 1: Flow (0=No flow) 2-3: pH Alarm (0 = No alarm, 1 = Low pH, 2 = High pH) 4-5: ORP Alarm (0 = No alarm, 1 = Low ORP, 2 = High ORP) 6: pH tank Empty (0 = No alarm, 1 = Tank Empty) 7: ORP tank Empty (0 = No alarm, 1 = Tank Empty) 8: pH Probe Fault (0 = No Alarm, 1 = Probe Fault)	0 currently, and no alarms. Will create some alarms
33	Warnings	Warning bitmask the bits are decoded as follows 1: pH Lockout (0 = No warning, 1 = pH Locked out) 2: pH Daily Limit (0 = No warning, 1 = pH Daily Limit Reached) 3: ORP Daily Limit (0 = No warning, 1 = ORP Daily Limit Reached) 4: Invalid Setup (0 = No warning, 1 = Invalid Setup) 5: Chlorinator Comms (0 = No warning, 1 = Chlorinator comms error)	0 currently, and no alarms. Will create some warnings.
34	Dosing Status	Bitmask for the current dosing status. High nibble (bits 5-8) contains the dosing status. 5-6: pH dosing status (0 = Dosing, 1 = Monitoring, 2 = Mixing) 7-8: ORP dosing status (0 = Dosing, 1 = Monitoring, 2 = Mixing)	This doesn't look right. For example, now I see 0xa5. Upper nibble is 0xa. 5-6 = 2 (mixing) 7-8 = 2 (mixing). But, not actually mixing

35	Setup Data	Bitmask for the setup information on the controller The upper nibble bits (5-8) are a bitmask for the following Boolean values. 1-3: Setup Status (0 = No Errors, 1 = No Comms, 2 = Setup Error 4: 1 = Manual Dosing 5: 1 = Use Chlorinator 6: 1 = HMI Advanced Display 7: 0 = Dose Base pH+, 1 = Dose Acid pH- 8: Not Used	Mine has 0x2. Will experiment.
36-37	Firmware Version	Minor version = byte(36), Major version byte(37)	Doesn't seem right. Bytes are 60(0x3c) and 1. But ScreenLogic reports firmware as 2.140
38	Water Chemistry Warnings	Water Chemistry Warnings	Confirmed for "Corrosive"
39		Unknown – The remaining 3 bytes might actually be for CO2 dosing.	
40		Unknown	
41		Unknown	Only 40 bytes in packet