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# Chlorinator

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This page is for the Pentair (aka AquaRite, NatureSoft, MineralSprings, SmartPure, etc) Salt Chlorinator

## Packets

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These packets are a little different than all of the others in this wiki. They all start with 16,2 and end with 16,3. There is no high bit checksum (only a low bit).

## Wiring

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If you are wiring this yourself, the pinouts are also slightly different than the other pool peripherals.

Aquarite pins:  
1=Red=Power  
2=Blk = data +  
3=Ylw= data -  
4=Grn=Ground

## 0. List of Commands

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Command	Name
0	Get Status
1	Response to Get Status
3	Response to Get Version
17	Set Salt %
18	Response to Set Salt % & Salt PPM
20	Get Version

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Command	Name
21	Set Salt Generate % / 10

## 1. Status Request

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Byte	1	2	3	4	5	6	7	8	9
Request	16	2	80	0	0	98	16	3	
Response	16	2	0	1	0	0	19	16	3

### Request

Byte	Known?	Sample	Definition
1	Y	16	Preamble 1
2	Y	2	Preamble 2
3	Y	80	Destination = Chlorinator
4	Y	0	Command = Get Status
5	N	0	Not sure
6	Y	98	Checksum Low Bit
7	Y	16	Post-amble 1
8	Y	3	Post-amble 2

### Response

Byte	Known?	Sample	Definition
1	Y	16	Preamble 1
2	Y	2	Preamble 2
3	Y	0	Destination = Controller
4	Y	1	Status = Ok
5	N	0	Not sure
6	N	0	Not sure

Byte	Known?	Sample	Definition
7	Y	19	Checksum Low Bit
8	Y	16	Post-amble 1
9	Y	3	Post-amble 2

## 2. Set Generate Salt % / Return Salt PPM

Byte	1	2	3	4	5	6	7	8	9
Request	16	2	80	17	3	118	16	3	
Response	16	2	0	18	58	144	238	16	3

### Request

Byte	Known?	Sample	Definition
1	Y	16	Preamble 1
2	Y	2	Preamble 2
3	Y	80	Destination = Chlorinator
4	Y	17	Command = Set Salt % If this is 21, then bit 5 = Set Salt %/10.
5	Y	3	Set Salt % (3%) If bit 4 is 21, then divide this by 10 (EG 100/10=10%);
6	Y	118	Checksum Low Bit, This bit is checksum of 1-5 bits (MOD 256, if necessary)
7	Y	16	Post-amble 1
8	Y	3	Post-amble 2

### Response

Byte	Known?	Sample	Definition
1	Y	16	Preamble 1
2	Y	2	Preamble 2

Byte	Known?	Sample	Definition
3	Y	0	Destination = Controller
4	Y	18	Status = Salt PPM Command
5	Y	58	Salt PPM * 50 (58*50=2,900PPM)
6	Y	144	Error bit: 0=Ok, 1=No Flow, 2=Low Salt, 4=High Salt, 144=Clean Salt Cell
7	Y	238	Checksum Low Bit
8	Y	16	Post-amble 1
9	Y	3	Post-amble 2

## 2. Get Version / Return Name

Byte	1	2	3	4	5	6	7	8	9	10	11	12
Request	16	2	80	20	2	120	16	3				
Response	16	2	0	3	0	73	110	116	101	108	108	105

### Request

Byte	Known?	Sample	Definition
1	Y	16	Preamble 1
2	Y	2	Preamble 2
3	Y	80	Destination = Chlorinator
4	Y	20	Command = Get Name
5	N	2	Not sure. Intellitouch uses 2. Aquarite uses 0. Any of them seem to work.
6	Y	120	Checksum Low Bit, This bit is checksum of 1-5 bits (MOD 256, if necessary)
7	Y	16	Post-amble 1
8	Y	3	Post-amble 2

## Response

Byte	Known?	Sample	Definition
1	Y	16	Preamble 1
2	Y	2	Preamble 2
3	Y	0	Destination = Controller
4	Y	3	Command = Return Name
5	Y	58	Salt PPM * 50 (58*50=2,900PPM)
6-21	Y	many	Ascii bits. This example returns "Intellichlor--40"
22	Y	188	Checksum Low Bit
23	Y	16	Post-amble 1
24	Y	3	Post-amble 2

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