Partner: Jandy
Model: iAquaLink
Device Type: Pool Controller

CRESTRON
CERTIFIED **INTEGRATED** PARTNER

GENERAL INFORMATION

SIMPLWINDOWS NAME:	Jandy iAquaLink v3.1
CATEGORY:	Miscellaneous
VERSION:	3.1
SUMMARY:	Provides monitoring and control of multiple Jandy iAquaLinks via TCP/IP.
GENERAL NOTES:	NOTE: This driver requires Crestron Database and Crestron Device Database v200 or newer

This module will control and monitor the functions of the Jandy iAquaLink by initiating a session with the Zodiac iAquaLink Web Connect System and retrieving a list of locations available for an existing user account. When changing lighting colors, the iAquaLink cycles on/off through the available colors until it reaches the one that was selected. Thus, it may take some time for some of the Aux buttons on/off status to report correctly.

Controlling the pool from competing controls such as the Jandy app, or directly from Jandy controllers, may cause the Crestron interface to become out of sync. We recommend that you use a single control point (that is, this module and not the Jandy Aqualink control interface).

API limitations prevent this driver from polling for device information too frequently; as a result, feedback from the device may take up to 15 minutes to change on the driver. The one-touch screen will only update once every hour, and the initial session request is allowed to be sent once per day.

Refreshing the location list is limited to once per day due to API call limitations.

Note: This is a 3-Series & 4-Series only module. |
CRESTRON HARDWARE REQUIRED:	3-Series Processor w/ethernet
SETUP OF CRESTRON HARDWARE:	Crestron processor must have internet access to the outside to connect to the Zodiac iAquaLink Web Connect System
VENDOR FIRMWARE:	N/A
VENDOR SETUP:	iAquaLink needs to be registered on the web. Details are included the iAquaLink Quick Start Guide.
CABLE DIAGRAM:	N/A

CONTROL:

Select_Locations_Screen	D	Pulse to display the list of locations associated with the Jandy account in use.

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Select_Home_Screen	D	Pulse to display the home screen.
Select_OneTouch_Screen	D	Pulse to display the OneTouch Screen.
Select_Other_Devices_Screen	D	Pulse to display the list of available Aux devices.
Select_Spa_(Temp1)_Screen	D	Pulse to display the Spa (Temp1) screen to adjust the Spa (Temp1) temperature setpoint.
Select_Pool_(Temp2)_Screen	D	Pulse to display the Pool (Temp2) screen to adjust the Pool (Temp2) temperature setpoint.
Select_Main_Screen	D	Pulse to select the main screen. If there is more than one location available, the list of locations will be displayed. If just one location exists, the home screen for that location with be displayed.
Refresh_Locations_List	D	Pulse to refresh the list of locations associated with the Jandy account in use.
Message_OK	D	Pulse to clear the "Display_Message" subpage signal.
Select_Location_<1-10>	D	Pulse to select a location to monitor/control.
Set_Pool_(Temp2)_Pump	D	Pulse to enable/disable the pool (temp2) pump.
Set_Spa_(Temp1)_Pump	D	Pulse to enable/disable the spa (temp1) pump.
Set_Pool_(Temp2)_Heater	D	Pulse to enable/disable the pool (temp2) heater.
Set_Spa_(Temp1)_Heater	D	Pulse to enable/disable the spa (temp1) heater.
Set_Solar_Heater	D	Pulse to enable/disable the solar heater.
Set_SWC_Boost	D	Pulse to enable/disable the SWC (salt water chlorination) boost setting.
Set_SWC_Low	D	Pulse to enable/disable the SWC (salt water chlorination) low setting.
Spa_(Temp1)_Key_<0-9/Enter>	D	Pulse to enter a spa (temp1) setpoint.
Spa_(Temp1)_<Up/Down>	D	Press to ramp up or down the spa (temp1) setpoint.
Pool_(Temp2)_Key_<0-9/Enter>	D	Pulse to enter a pool (temp2) setpoint.
Pool_(Temp2)_<Up/Down>	D	Press to ramp up or down the pool (temp2) setpoint.
Set_OneTouch_<1-6>	D	Pulse to trigger a OneTouch function.
Select_Aux_<N>	D	Pulse to select an available Aux to adjust.

Select_Color_<1-15>	D	Pulse to select color for the corresponding aux selection.
Set_SJVA_Key_<0-9/ Enter>	D	Pulse to enter a SJVA setting for the selected aux.
Set_SJVA_<Up/Down>	D	Press to ramp up or down the SJVA setting for the selected aux.
Set_Dimmer_Key_<0-9/ Enter>	D	Pulse to enter a dimmer setting for the selected aux.
Set_Dimmer_<Up/Down>	D	Press to ramp up or down the dimmer setting for the selected aux.

FEEDBACK:

Display_Locations_Screen	D	Latches high to display the locations screen.
Display_Location_Home_Screen	D	Latches high to display the location home screen.
Display_OneTouch_Screen	D	Latches high to display the OneTouch screen.
Display_Other_Devices_Screen	D	Latches high to display the other devices screen.
Display_Set_Dimmer_Screen	D	Latches high to display the set dimmer level screen.
Display_Set_Light_Screen	D	Latches high to display the set light color screen.
Display_Set_SJVA_Screen	D	Latches high to display the set SJVA level screen.
Display_Spa_(Temp1)_Screen	D	Latches high to display the set spa (temp1) level screen.
Display_Pool_(Temp2)_Screen	D	Latches high to display the set pool (temp2) level screen.
Display_Wait_Message	D	Latches high to display wait message screen.
Wait_Message_Text	S	Text field displaying the wait message received.
Display_Message	D	Latches high to display message screen.
Message_Text	S	Text field displaying the message received.
Location_<1-10>_Serial_Number_Text	S	Displays the serial number for locations if they exist.
Location_<1-10>_Label_Text	S	Displays the label for location 1 if it exists.
Location_Text	S	Displays the location that was selected for monitoring/control.
Home_Status_Text	S	Displays the selected location's connection status.

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Pool_(Temp2)_Pump_Is_<On/Off>	D	Indicates that pool (temp2) pump is on or off.
Spa_(Temp1)_Pump_Is_<On/Off>	D	Indicates that spa (temp1) pump is on or off.
Pool_(Temp2)_Heater_Is_Enabled	D	Indicates that pool (temp2) heater is enabled.
Pool_(Temp2)_Heater_Is_Disabled	D	Indicates that pool (temp2) heater is disabled.
Pool_(Temp2)_Heater_Is_Heating	D	Indicates that pool (temp2) heater is heating.
Spa_(Temp1)_Heater_Is_Enabled	D	Indicates that spa (temp1) heater is enabled.
Spa_(Temp1)_Heater_Is_Disabled	D	Indicates that spa (temp1) heater is disabled.
Spa_(Temp1)_Heater_Is_Heating	D	Indicates that spa (temp1) heater is heating.
Solar_Heater_Is_Enabled	D	Indicates that solar heater is enabled.
Solar_Heater_Is_Disabled	D	Indicates that solar heater is disabled.
Solar_Heater_Is_Heating	D	Indicates that solar heater is heating.
SWC_Boost_Is_Enabled	D	Indicates that SWC boost is enabled.
SWC_Boost_Is_Disabled	D	Indicates that SWC boost is disabled.
SWC_Low_Is_Enabled	D	Indicates that SWC low is enabled.
SWC_Low_Is_Disabled	D	Indicates that SWC low is disabled.
Home_Spa_(Temp1)_Setpoint_Text	S	Displays the spa (temp1) setpoint.
Home_Pool_(Temp2)_Setpoint_Text	S	Displays the pool (temp2) setpoint.
Home_System_Type_Text	S	Displays the system type.
Home_Freeze_Protection_Text	S	Displays the freeze protection settings.
Home_Cover_Pool_Text	S	Displays the cover pool settings.
Home_Air_Temp_Text	S	Displays the current air temp.
Home_Spa_(Temp1)_Temp_Text	S	Displays the spa (temp1) temp.
Home_Pool_(Temp2)_Temp_Text	S	Displays the pool (temp2) temp.
Home_Temp_Scale_Text	S	Displays the temperature scale (C or F).

Home_SWC_Setpoint_Text	S	Displays the SWC setpoint.
Home_ACL_Value_Text	S	Displays the ACL value.
Home_Spa_Salinity_Text	S	Indicates that the LED is active or inactive.
Home_Pool_Salinity_Text	S	Displays the spa salinity.
Home_ORP_Text	S	Displays the ORP setting.
Home_pH_Text	S	Displays the pH setting.
Freeze_Protection_Available	D	Indicates that freeze protection information is available.
Cover_Pool_Available	D	Indicates that cover pool information is available.
Solar_Heater_Available	D	Indicates that solar heater information is available.
SWC_Setpoint_Available	D	Indicates that SWC setpoint information is available.
SWC_Boost_Available	D	Indicates that SWC boost information is available.
SWC_Low_Available	D	Indicates that SWC low information is available.
ACL_Value_Available	D	Indicates that ACL value information is available.
Spa_Salinity_Available	D	Indicates that spa salinity information is available.
Pool_Salinity_Available	D	Indicates that pool salinity information is available.
ORP_Available	D	Indicates that ORP information is available.
pH_Available	D	Indicates that pH information is available.
OneTouch_Button_<1-6>_Is_Active	D	Indicates that a OneTouch button is active.
OneTouch_Button_<1-6>_Available	D	Indicates that a OneTouch button is available.
OneTouch_Button_<1-6>_Text	S	Displays the label for OneTouch buttons.
Aux_<N>_State_Is_On	D	Indicates that an aux status is on.
Aux_<N>_State_Is_Off	D	Indicates that an aux status is off.
Aux_<N>_Label_Text	S	Displays the label for an aux button.
Aux_<N>_Type_Text	S	Displays the type for an aux button.

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Aux_<N>_Subtype_Text	S	Displays the subtype for an aux button.
Lighting_Setting_Text	S	Displays the type of light color being used for the selected aux.
Aux_Color_<1-15>_Text	S	Displays the labels for the aux colors.
SJVA_Setting_Text	S	Displays the current SJVA setting for the selected aux.
Dimmer_Setting_Text	S	Displays the current dimmer setting for the selected aux.

PARAMETERS:

Email_Address	S	E-mail address used for the Zodiac iAquaLink Web Connect System active account.
Password	S	Password used for the Zodiac iAquaLink Web Connect System active account.
Debug	D	Enable to log any errors that may occur.

TESTING:

OPS USED FOR TESTING:	3-Series: v1.8000.4522.24719
SIMPL WINDOWS USED FOR TESTING:	4.1600.03.00
DEVICE DB USED FOR TESTING:	200.85.002.00
CRES DB USED FOR TESTING:	205.05.004.00
SYMBOL LIBRARY USED FOR TESTING:	508
SAMPLE PROGRAM:	3 Series: Jandy iAquaLink v3.1 Demo CP3.smw
REVISION HISTORY:	v1.0 – Original release v1.1 – Resolved issue with module not working when running on an MC3. v1.2 – Revised module to be less manual in use. If only one location is associated with a Jandy account, the module will automatically choose that location and will be ready for use. If not, a list of location will be displayed instead. v1.3 – Modified to report errors when debug is enabled. v2.0 – Update to Newtonsoft v4.0.8.0. Requires Crestron Database and Crestron Device Database v200 or newer

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v3.0 – Updated to use the Jandy 1.1 programming interface and timing.

V3.1 – Fix repeating status messages