HELP FILE DOCUMENT

Partner: Can'nX
Model: Poolcop
Device Type: Pool Monitoring/Controller

CONTACT SUPPORT:

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NOTES:	

GENERAL INFORMATION

SIMPLWINDOWS NAME:	Poolnx_Poolcop v1.0.umc
CATEGORY:	Pool Monitoring/Controller
VERSION:	v1.0
SUMMARY:	Provides Creston-usable values about the data of a Poolcop pool. This module performs a **TCP/IP connection** to a Pool'nX that is used like a proxy to gather data from Poolcop, send it to Crestron, and receive commands from Crestron to control the Poolcop.
GENERAL NOTES:	
CRESTRON HARDWARE REQUIRED:	3-Series Processor, 4-Series Processor
SETUP OF CRESTRON HARDWARE:	The Crestron Control Processor's IP address must be in the same subnet as the Pool'nX
VENDOR FIRMWARE:	N/A

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VENDOR SETUP:	The Pool'nX has to have an internet connection.
CABLE DIAGRAM:	N/A

CONTROL: (BASIC FUNCTIONS):

Signal/Function Name	*D,S,A*	*Digital, Serial, Analog signal property definition.*
		Each of the following signals will send a command to the Pool'nX/TCP server
di_Start_Client	D	Opens a TCP/IP socket with a third-party Ethernet device for as long as the input is high. High/1 (level sensitive) = Open socket; Low/0 = Close socket
di_Reconnect_Enable	D	When a connection is lost, the module will try to reconnect as long as the input is high High/1 = Enable reconnection; Low/0 = disable reconnection
di_Request_Update	D	Ask the Pool'nX to send the pool data. Note that the Pool'nX send data automatically every 10 minutes. High/1 (rising edge) = Order the Pool'nX to refresh data; Low/0 = No effect
ai_PumpSpeed	A	Changes the pump speed. Max speed depends on the installation.
di_PumpOnOff	D	Switch pump On/Off High/1 (rising edge) = Activate command; Low/0 = No effect Status inversion On -> [1] Off Off -> [1] On
di_ValvePosition_Filter	D	Change the valve position to Filter
di_ValvePosition_Waste	D	Change the valve position to Waste
di_ValvePosition_Closed	D	Change the valve position to Closed
di_ValvePosition_Backwash	D	Change the valve position to Backwash
di_ValvePosition_ByPass	D	Change the valve position to ByPass

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di_ValvePosition_Rinse	D	Change the valve position to Rinse
di_ValvePosition_Rotation	A	Change the valve position to Rotation in progress

CONTROL: (ADDITIONAL FUNCTIONS):

ai_ValvePosition	D	Switch auxiliary On/Off [1-6] (if not controlled by regulation) High/1 (rising edge) = Activate command; Low/0 = No effect Status inversion On -> [1] Off Off -> [1] On
di_Auxiliary_OnOff[1-6]	D	Change the valve position to the desired state depending on value given : 0 = Filter 1 = Waste 2 = Closed 3 = Backwash 4 = Bypass 5 = Rinse 9 = Rotation in progress

FEEDBACK: (BASIC FUNCTIONS):

//	*//*	Some ANALOG signal's value has been multiplied by 10 (To keep a precision of 0,1). These are signals that concern quantities, or values with units of measurement. Remember to take this into account when manipulating ANALOG.
Pump_Speed_Text	S	Serial value of the pump speed.
Pump_Is_ON	S	Inform about the pump's status. High/1 = ON, Low/0 = OFF
Valve_Position_English_Text	S	Serial signification about the valve position. To see all the possible codes and their signification, visit this documentation: https://doc.can-nx.com/en/poolnx-version-poolcop, or the description of Valve_Position_Code_Text signal below.
Poolcop_English_Text	S	Serial signification of the Poolcop system's status. To see all the possible codes and their signification, visit this documentation: https://doc.can-nx.com/en/poolnx-version-poolcop, or the description of Poolcop_Code_Text signal below.

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Air_Temperature_Text	S	Serial value of the air temperature. Has the unit " °C " at the end. (ex: 20.5 °C)
Water_Temperature_Text	S	Serial value of the water temperature. Has the unit " °C " at the end. (ex: 20.5 °C)
Water_Level_English_Text	S	Serial signification about the water level of the pool. To see all the possible codes and their signification, visit this documentation: https://doc.can-nx.com/en/poolnx-version-poolcop, or the description of Water_Level_Code_Text signal below.

FEEDBACK: (ALL FUNCTIONS):

pH_Analog	A	Analog value of the pH. Has been multiplied by 10 to keep a 0,1 precision.
pH_Text	S	Serial value of the pH.
pH_SetPoint_Analog	A	Analog value of the pH setpoint.
pH_SetPoint_Text	S	Serial value of the pH setpoint
pH_Measure_Date_Text	S	Date of the last pH measurement. Date has a format “dd/MM/yyyy” (Ex: 16 March 2023 = 16/03/2023)
Orp_Analog	A	Analog value of the ORP. Has been multiplied by 10 to keep a 0,1 precision.
Orp_Text	S	Serial value of the ORP. Has the unit " mV " at the end. (ex: 600 mV)
Orp_SetPoint_Analog	A	Analog value of the ORP setpoint. Has been multiplied by 10 to keep a 0,1 precision.
Orp_SetPoint_Text	S	Serial value of the ORP setpoint. Has the unit " mV " at the end. (ex: 600 mV)
Air_Temperature_Analog	A	Analog value of the air temperature. Outdoor temperature Has been multiplied by 10 to keep a 0,1 precision.
Air_Temperature_Text	S	Serial value of the air temperature. Outdoor temperature. Has the unit "°C" at the end. (ex: 20 °C)
Water_Temperature_Analog	A	Analog value of the water temperature. Has been multiplied by 10 to keep a 0,1 precision.
Water_Temperature_Text	S	Serial value of the water temperature. Has the unit "°C" at the end. (ex: 20 °C)
Water_Level_Analog	A	Analog value of the water level. Has 5 different values: 0d = Default 1d = Low Level 2d = Normal level 3d = High level 4d = Very high level To directly have the textual meaning of the code, use <Water_Level_English_Text>.
Water_Level_Code_Text	S	Serial value of the water level. Has 5 different values: 0 = Default

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		1 = Low Level 2 = Normal level 3 = High level 4 = Very high level To directly have the textual meaning of the code, use <Water_Level_English_Text>.
Water_Level_English_Text	S	Serial signification about the water level of the pool.
Pressure_Analog	A	Analog value of the pressure. This indicates the water pressure at pump output. Has been multiplied by 10 to keep a 0,1 precision.
Pressure_Text	S	Serial value of the pressure. This indicates the water pressure at pump output. Has the unit " mBar " at the end. (ex: 850 mBar).
Valve_Position_Analog	A	Analog value of the valve position. 0d = Filter 1d = Waste 2d = Closed 3d = Bypass 5d = Rince 9d = Rotation in progress To directly have the textual meaning of the code, use <Valve_Position_English_Text>.
Valve_Position_Code_Text	S	Serial value of the valve position. 0 = Filter 1 = Waste 2 = Closed 3 = Bypass 5 = Rince 9 = Rotation in progress To directly have the textual meaning of the code, use <Valve_Position_English_Text>.
Valve_Position_English_Text	S	Serial signification about the valve position.
Battery_Voltage_Analog	A	Analog value of the battery voltage. Has been multiplied by 10 to keep a 0,1 precision.
Battery_Voltage_Text	S	Serial value of the battery voltage. Has the unit "V" at the end. (ex: 95 V).
Pump_Speed_Analog	A	Analog value of the pump speed.
Pump_Speed_Text	S	Serial value of the pump speed.
Pump_Number_of_Speed_Analog	A	Analog value of the number of speed available for the pump.
Pump_Number_of_Speed_Text	S	Serial value of the number of speed available for the pump
Pump_Low_Pressure_Alarm_Threshold_Analog	A	Analog value of the pump's low pressure alarm. This represents a limit that the pressure must not go under, otherwise it will trigger an alert/alarm. Has been multiplied by 10 to keep a 0,1 precision.
Pump_Low_Pressure_Alarm_Threshold_Text	S	Serial value of the pump's low pressure alarm. This represents a limit

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		that the pressure must not go under, otherwise it will trigger an alert/alarm. Has the unit " mBar " at the end. (ex: 850 mBar).
Poolcop_Analog	A	Analog value of the system status. 0d = Pump stopped 1d = Freezing risk 2d = Forced mode 3d = Automatic mode 4d = Timers mode 5d = Manual mode 6d = Pause between two cycles 7d = External request 8d = Level management for Rimflow pool 9d = Mode 24h To directly have the textual meaning of the code, use <Poolcop_English_Text>.
Poolcop_Code_Text	S	Serial value of the system's status. 0 = Pump stopped 1 = Freezing risk 2 = Forced mode 3 = Automatic mode 4 = Timers mode 5 = Manual mode 6 = Pause between two cycles 7 = External request 8 = Level management for Rimflow pool 9 = Mode 24h To directly have the textual meaning of the code, use <Poolcop_English_Text>.
Poolcop_English_Text	S	Serial signification of the Poolcop system's status.
Ioniser_Analog	A	Analog value of the ioniser. Has been multiplied by 10 to keep a 0,1 precision.
Ioniser_Text	S	Serial value of the ioniser. Has the unit "mA" at the end. (ex: 95 mA).
Alert_[1-5]_Analog	A	Analog value of the alert. To see all the possible codes and their signification, visit this documentation :https://doc.can-nx.com/en/poolnx-version-poolcop
Alert_[1-5]_Code_Text	S	Serial value of the alert.
Alert_[1-5]_English_Text	S	Serial signification of the alert.
Alert_Count_Analog	A	Analog value of the alert count.
Alert_Count_Text	S	Serial value of the alert count.
Auxiliary_[1-6]_is_ON	D	Gives the status of the auxiliaries. High/1 = Auxiliary in ON, Low/0 = Auxiliary is OFF
do_Alert	D	Inform if at least one alert in ON

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		Higj/1 = Alert ON, Low/0 = Alert OFF
Pool_Is_Connected	D	Inform if the pool in connected to the cloud. High/1 = Pool connected, Low/0 = Pool disconnected
Auto_Water_Filling_is_ON	D	Inform if the auto filling is enable High/1 = Auto filling is ON, Low/0= Auto filling is OFF
Backwash_Date_Text	S	Date of the previous Backwash. Date has a format “dd/MM/yyyy” (Ex: 16 March 2023 = 16/03/2023)
Refill_Date_Text	S	Date of the previous refill. Date has a format “dd/MM/yyyy” (Ex: 16 March 2023 = 16/03/2023)

PARAMETERS:

IP_Address	S	IP address of the pool’nX device in which the TCP server is launched.

TESTING:

OPS USED FOR TESTING:	MC3 1.502.4324.33148
SIMPL WINDOWS USED FOR TESTING:	4.2200.00.03
DEVICE DB USED FOR TESTING:	200.265.001.00
CRES DB USED FOR TESTING:	218.00.001.00
SYMBOL LIBRARY USED FOR TESTING:	1180
SAMPLE PROGRAM:	Poolnx_Poolcop v1.0 Demo.smw
REVISION HISTORY:	v1.0

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