

Partner: Home Connect GmbH

Appliance Type: Home Connect-enabled refrigeration appliances
such as Fridge columns, Freezer columns, Wine columns
and Fridge-Freezers



GENERAL INFORMATION

SIMPLWINDOWS NAME:	Home Connect v1.0 Cooler
CATEGORY:	Misc.
VERSION:	1.0
SUMMARY:	This module monitors and controls fridge column, freezer column, wine column and fridge-freezer appliances compatible with the Home Connect cloud platform. Home Connect is featured on a wide range of connected home appliances from Bosch, Siemens, Neff, Gaggenau and Thermador.
GENERAL NOTES:	<p>This module interacts with one physical appliance. If multiple cooler appliances are required, one module for each appliance must be added to the solution. This module requires one instance of the Home Connect v1.0 Comm IP module for managing all communication to and from the appliance.</p> <p>Refer to the BSH Home Appliance v1.0 Comm IP Help file for important instructions regarding control processor and module configuration.</p>
CRESTRON HARDWARE REQUIRED:	Crestron 3-Series processor.
SETUP OF CRESTRON HARDWARE:	N/A
VENDOR FIRMWARE:	N/A
VENDOR SETUP:	N/A

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PARAMETERS:

Device Type	Setting indicates the type of cooler appliance the module will interact with.
Device ID	Setting indicates the unique ID (HAID) of the appliance this module will interact with.

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CONTROL:

Power On	D	Pulse to set the power state to on.
Power_Standby	D	Pulse to set the power state to standby.
Compartment1_Temperature_StepUp	D	Pulse to incrementally increase cooler compartment 1 temperature.
Compartment1_Temperature_StepDown	D	Pulse to incrementally decrease cooler compartment 1 temperature.
Compartment1_Temperature_SetValue	D	Pulse to set the temperature in degrees for cooler compartment 1 specified by the Compartment1_Temperature_Value analog input signal.
Compartment1_Temperature_Value	A	Integer value specifies the temperature in degrees for cooler compartment 1. The range of degrees is specified by Compartment1_Temperature_Min and Compartment1_Temperature_Max analog output signals.
Compartment1_Temperature_SetPercent	D	Pulse to set the temperature as a percent of the maximum temperature for cooler compartment 1 specified by the Compartment1_Temperature_Percent analog input signal.
Compartment1_Temperature_Percent	A	Integer value specifies the temperature as a percentage of the maximum temperature for cooler compartment 1. Percent range is 0 to 65535.
Compartment2_Temperature_StepUp	D	Pulse to incrementally increase cooler compartment 2 temperature.
Compartment2_Temperature_StepDown	D	Pulse to incrementally decrease cooler compartment 2 temperature.
Compartment2_Temperature_SetValue	D	Pulse to set the temperature in degrees for cooler compartment 2 specified by the Compartment2_Temperature_Value analog input signal.
Compartment2_Temperature_Value	A	Integer value specifies the temperature in degrees for cooler compartment 2. The range of degrees is specified by Compartment2_Temperature_Min and Compartment2_Temperature_Max analog output signals.
Compartment2_Temperature_SetPercent	D	Pulse to set the temperature as a percent of the maximum temperature for cooler compartment 2 specified by the Compartment2_Temperature_Percent analog input signal.
Compartment2_Temperature_Percent	A	Integer value specifies the temperature as a percentage of the maximum temperature for cooler compartment 2. Percent range is 0 to 65535.
Compartment3_Temperature_StepUp	D	Pulse to incrementally increase cooler compartment 3 temperature.
Compartment3_Temperature_StepDown	D	Pulse to incrementally decrease cooler compartment 3 temperature.
Compartment3_Temperature_SetValue	D	Pulse to set the temperature in degrees for cooler compartment 3 specified by the Compartment3_Temperature_Value analog input signal.

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Compartment3_Temperature_Value	A	Integer value specifies the temperature in degrees for cooler compartment 3. The range of degrees is specified by Compartment3_Temperature_Min and Compartment3_Temperature_Max analog output signals.
Compartment3_Temperature_SetPercent	D	Pulse to set the temperature as a percent of the maximum temperature for cooler compartment 3 specified by the Compartment3_Temperature_Percent analog input signal.
Compartment3_Temperature_Percent	A	Integer value specifies the temperature as a percentage of the maximum temperature for cooler compartment 3. Percent range is 0 to 65535.
Mode_Eco_On	D	Pulse to set the cooler eco mode to on.
Mode_Eco_Off	D	Pulse to set the cooler eco mode to off.
Mode_Eco_Toggle	D	Pulse to toggle eco mode from on to off, or off to on.
Mode_Fresh_On	D	Pulse to set the cooler fresh mode to on.
Mode_Fresh_Off	D	Pulse to set the cooler fresh mode to off.
Mode_Fresh_Toggle	D	Pulse to toggle fresh mode from on to off, or off to on.
Mode_Sabbath_On	D	Pulse to set the cooler Sabbath mode to on.
Mode_Sabbath_Off	D	Pulse to set the cooler Sabbath mode to off.
Mode_Sabbath_Toggle	D	Pulse to toggle Sabbath mode from on to off, or off to on.
Mode_Vacation_On	D	Pulse to set the cooler vacation mode to on.
Mode_Vacation_Off	D	Pulse to set the cooler vacation mode to off.
Mode_Vacation_Toggle	D	Pulse to toggle vacation mode from on to off, or off to on.
SuperMode_Freezer_On	D	Pulse to set the cooler super freezer mode to on.
SuperMode_Freezer_Off	D	Pulse to set the cooler super freezer mode to off.
SuperMode_Freezer_Toggle	D	Pulse to toggle super freezer mode from on to off, or off to on.
SuperMode_Refrigerator_On	D	Pulse to set the cooler super refrigerator mode to on.

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SuperMode_ Refirgerator _Off	D	Pulse to set the cooler super refrigerator mode to off.
SuperMode_ Refirgerator _Toggle	D	Pulse to toggle super refrigerator mode from on to off, or off to on.
FunctionLight_On	D	Pulse to turn on the function light.
FunctionLight_Off	D	Pulse to turn off the function light.
FunctionLight_Toggle	D	Pulse to turn on the function light if it is off or turn off the function light if it is on.
FunctionLight_StepUp	D	Pulse to increase the function light brightness by the incremental step size specified by the FunctionLight_Brightness_Step analog output.
FunctionLight_StepDown	D	Pulse to decrease the function light brightness by the incremental step size specified by the FunctionLight_Brightness_Step analog output.
FunctionLight_Set_Level	D	Pulse to set the function light brightness specified by the FunctionLight_Target_Level analog input.
FunctionLight_Target_Level	A	Integer value indicates the function light brightness expressed as a relative range from 1 to 10. The value must be in range between FunctionLight_Brightness_Min and FunctionLight_Brightness_Max analog output values.
FunctionLight_Set_Percent	D	Pulse to set the function light brightness specified by the FunctionLight_Target_Percent analog input.
FunctionLight_Target_Percent	A	Integer value indicates the function light brightness expressed as a percentage scaled from 0 to 65535.

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FEEDBACK:

Device_Name	S	Text value indicates the friendly name of the appliance device.
Is_Initialized	D	Signal latched high indicates that all state values of the device have been refreshed in the module and that the module is ready to control the device.
Is_Connected	D	Signal latched high indicates the physical device is connected to the HOME CONNECT cloud platform. When low, the device cannot be controlled through the module.
Power_Is_Enabled	D	Signal latched high indicates that device power can be controlled through the module.
Power_Is_On	D	Signal latched high indicates the device power state is on.
Power_Is_Standby	D	Signal latched high indicates the device power state is standby.
Door_Is_Open	D	Signal latched high indicates the device appliance door is open. A program cannot be run while the door is open.
Door_Is_Closed	D	Signal latched high indicates the device appliance door is closed. The door must be closed in order to run a program.
Compartment1_Name	S	Text value indicates the friendly name of cooler compartment 1.
Compartment1_Is_Available	D	Signal latched high indicates cooler compartment 1 is supported by the device and can be controlled and monitored through the module.
Compartment1_Temperature_Min	A	Integer value specifies the minimum temperature range in degrees for cooler compartment 1. Degree units are specified by the Compartment1_Temperature_Units serial output signal.
Compartment1_Temperature_Max	A	Integer value specifies the maximum temperature range in degrees for cooler compartment 1. Degree units are specified by the Compartment1_Temperature_Units serial output signal.
Compartment1_Temperature_Step	A	Integer value indicates the number of degrees temperature will change when incrementing or decrementing the temperature with Compartment1_Temperature_StepUp or Compartment1_Temperature_StepDown digital input signals.
Compartment1_Temperature_Current_Value	A	Integer value indicates the current temperature in degrees for cooler compartment 1. Temperature range is specified by Compartment1_Temperature_Min and Compartment1_Temperature_Max analog output signals. Degree units are specified by the Compartment1_Temperature_Units serial output signal.
Compartment1_Temperature_CurrentValue_Label	S	Text value indicates the current temperature in degrees for cooler compartment 1 as a formatted string with degree units.
Compartment1_Temperature_CurrentPercent	A	Integer value indicates the current temperature as a percentage of the maximum temperature for cooler compartment 1. Percentage range is 0 to 65535.

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Compartment1_Temperature_Units	S	Text value indicates the degree units for cooler compartment 1.
Compartment2_Name	S	Text value indicates the friendly name of cooler compartment 2.
Compartment2_Is_Available	D	Signal latched high indicates cooler compartment 2 is supported by the device and can be controlled and monitored through the module.
Compartment2_Temperature_Min	A	Integer value specifies the minimum temperature range in degrees for cooler compartment 2. Degree units are specified by the Compartment2_Temperature_Units serial output signal.
Compartment2_Temperature_Max	A	Integer value specifies the maximum temperature range in degrees for cooler compartment 2. Degree units are specified by the Compartment2_Temperature_Units serial output signal.
Compartment2_Temperature_Step	A	Integer value indicates the number of degrees temperature will change when incrementing or decrementing the temperature with Compartment2_Temperature_StepUp or Compartment2_Temperature_StepDown digital input signals.
Compartment2_Temperature_Current_Value	A	Integer value indicates the current temperature in degrees for cooler compartment 2. Temperature range is specified by Compartment2_Temperature_Min and Compartment2_Temperature_Max analog output signals. Degree units are specified by the Compartment2_Temperature_Units serial output signal.
Compartment2_Temperature_CurrentValue_Label	S	Text value indicates the current temperature in degrees for cooler compartment 2 as a formatted string with degree units.
Compartment2_Temperature_CurrentPercent	A	Integer value indicates the current temperature as a percentage of the maximum temperature for cooler compartment 2. Percentage range is 0 to 65535.
Compartment2_Temperature_Units	S	Text value indicates the degree units for cooler compartment 2.
Compartment3_Name	S	Text value indicates the friendly name of cooler compartment 3.
Compartment3_Is_Available	D	Signal latched high indicates cooler compartment 3 is supported by the device and can be controlled and monitored through the module.
Compartment3_Temperature_Min	A	Integer value specifies the minimum temperature range in degrees for cooler compartment 3. Degree units are specified by the Compartment3_Temperature_Units serial output signal.
Compartment3_Temperature_Max	A	Integer value specifies the maximum temperature range in degrees for cooler compartment 3. Degree units are specified by the Compartment3_Temperature_Units serial output signal.
Compartment3_Temperature_Step	A	Integer value indicates the number of degrees temperature will change when incrementing or decrementing the temperature with Compartment3_Temperature_StepUp or Compartment3_Temperature_StepDown digital input signals.
Compartment3_Temperature_Current_Value	A	Integer value indicates the current temperature in degrees for cooler compartment 3. Temperature range is specified by Compartment3_Temperature_Min and

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		Compartment3_Temperature_Max analog output signals. Degree units are specified by the Compartment3_Temperature_Units serial output signal.
Compartment3_Temperature_CurrentValue_Label	S	Text value indicates the current temperature in degrees for cooler compartment 3 as a formatted string with degree units.
Compartment3_Temperature_CurrentPercent	A	Integer value indicates the current temperature as a percentage of the maximum temperature for cooler compartment 3. Percentage range is 0 to 65535.
Compartment3_Temperature_Units	S	Text value indicates the degree units for cooler compartment 3.
Mode_Eco_Is_Available	D	Signal latched high indicates eco mode is supported by the device and can be controlled through the module.
Mode_Fresh_Is_Available	D	Signal latched high indicates fresh mode is supported by the device and can be controlled through the module.
Mode_Sabbath_Is_Available	D	Signal latched high indicates Sabbath mode is supported by the device and can be controlled through the module.
Mode_Vacation_Is_Available	D	Signal latched high indicates vacation mode is supported by the device and can be controlled through the module.
SuperMode_Freezer_Is_Available	D	Signal latched high indicates freezer super mode is supported by the device and can be controlled through the module.
SuperMode_Refrigerator_Is_Available	D	Signal latched high indicates refrigerator super mode is supported by the device and can be controlled through the module.
Mode_Eco_Is_On	D	Signal latched high indicates eco mode is on.
Mode_Eco_Is_Off	D	Signal latched high indicates eco mode is off.
Mode_Fresh_Is_On	D	Signal latched high indicates fresh mode is on.
Mode_Fresh_Is_Off	D	Signal latched high indicates fresh mode is off.
Mode_Sabbath_Is_On	D	Signal latched high indicates Sabbath mode is on.
Mode_Sabbath_Is_Off	D	Signal latched high indicates Sabbath mode is off.
Mode_Vacation_Is_On	D	Signal latched high indicates vacation mode is on.
Mode_Vacation_Is_Off	D	Signal latched high indicates vacation mode is off.
SuperMode_Freezer_Is_On	D	Signal latched high indicates freezer super mode is on.
SuperMode_Freezer_Is_Off	D	Signal latched high indicates freezer super mode is off.
SuperMode_Refrigerator_Is_On	D	Signal latched high indicates refrigerator super mode is on.
SuperMode_Refrigerator_Is_Off	D	Signal latched high indicates refrigerator super mode is off.

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FunctionLight_Is_Available	D	Signal latched high indicates the appliance supports a function light feature that can be turned on or off.
FunctionLight_Is_On	D	Signal latched high indicates the function light is turned on.
FunctionLight_Is_Off	D	Signal latched high indicates the function light is turned off.
FunctionLight_Brightness_Is_Available	D	Signal latched high indicates the appliance supports adjusting the brightness of the function light.
FunctionLight_Brightness_Min	A	Integer value indicates the minimum brightness of the function light.
FunctionLight_Brightness_Max	A	Integer value indicates the maximum brightness of the function light.
FunctionLight_Brightness_Step	A	Integer value indicates the incremental amount the brightness level is changed when FunctionLight_StepUp or FunctionLight_StepDown digital input signals are pulsed.
FunctionLight_Current_Level	A	Integer value indicates the current brightness level of the function light. Range value is 0 to 100.
FunctionLight_Current_Percent	A	Integer value indicates the current brightness level of the function light as a percentage scaled from 0 to 65535.
FunctionLight_Brightness_Units	S	Text value indicates the units of brightness. Brightness units expressed as a percentage of the maximum brightness. Default units are percent (%).

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**TESTING:**

OPS USED FOR TESTING:	CP3 1.603.4242.34642
SIMPL WINDOWS USED FOR TESTING:	4.14.20
CRES DB USED FOR TESTING:	201.00.004.00
DEVICE DATABASE:	200.05.001.00
SYMBOL LIBRARY USED FOR TESTING:	1114
SAMPLE PROGRAM:	Home Connect v1.0 Demo IP CP3.smw
REVISION HISTORY:	v1.0 – Initial Release