



Certified Module

Partner: Home Connect GmbH

Appliance Type: Home Connect-enabled Ovens and Ranges



GENERAL INFORMATION

SIMPLWINDOWS NAME:	Home Connect v1.0 Oven
CATEGORY:	Misc.
VERSION:	1.0
SUMMARY:	This module monitors and controls ovens and range 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:	This module interacts with one physical appliance. If multiple oven 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. Refer to the BSH Home Appliance v1.0 Comm IP Help file for important instructions regarding control processor and module configuration.
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 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.
Start_Program	D Pulse to begin execution of the selected program.
Resume_Program	D Pulse to resume the selected program from paused state.
Pause_Program	D Pulse to temporarily halt execution of the selected program.
Stop_Program	D Pulse to abort execution of the selected program.
Program_[x]_Select	D Pulse to select the desired program. The program must be available in order to be selected. Selecting a program will refresh the options in the module (where "x" is the specific program name).
OvenTemperature_StepUp	D Pulse to incrementally increase the oven program temperature by the amount specified by the OvenTemperature_Step analog signal.
OvenTemperature_StepDown	D Pulse to incrementally decrease the oven program temperature by the amount specified by the OvenTemperature_Step analog signal.
OvenTemperature_Set_Value	D Pulse to set the oven program temperature specified by the OvenTemperature_TargetValue analog input.
OvenTemperature_TargetValue	A Integer value indicates the oven temperature setpoint expressed in units of degree specified by the appliance.
OvenTemperature_Set_Percent	D Pulse to set the oven temperature specified by the OvenTemperature_TargetPercent analog input.
OvenTemperature_TargetPercent	A Integer value indicates the oven temperature setpoint as a percentage scaled from 0 to 65535.
ProgramDuration_Hours_StepUp	D Pulse to increase the program duration by one hour.
ProgramDuration_Hours_StepDown	D Pulse to decrease the program duration by one hour.
ProgramDuration_Minutes_StepUp	D Pulse to increase the program duration by one minute.
ProgramDuration_Minutes_StepDown	D Pulse to decrease the program duration by one minute.
ProgramDuration_Set	D Pulse to set the program duration in hours and minutes specified by the ProgramDuration_Hours_TargetValue and ProgramDuration_Minutes_TargetValue analog inputs.



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ProgramDuration_Hours_TargetValue	A	Integer value indicates the program duration target number of hours.
ProgramDuration_Minutes_TargetValue	A	Integer value indicates the program duration target number of minutes.
FastPreheating_Off	D	Pulse to turn off fast preheating mode.
FastPreheating_On	D	Pulse to turn on fast preheating mode.
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.

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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_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.
Remote_Control_Activation	D	Signal latched high indicates that device activation can be triggered remotely.
Remote_Start_Allowed	D	Signal latched high indicates the device allows programs to be started through the module. When low, the module will not be able to start a selected program.
Locally_Controlled	D	Signal latched high indicates the device is being controlled by a person in front of the appliance.
Run_Program_Allowed	D	Signal latched high indicates the device is in a state where a program can be started. Several states prohibit running a program, such as the appliance door being open.
Pause_Program_Allowed	D	Signal latched high indicates the device supports pausing the currently running program. This signal should be used to hide or show a "pause program" option on the user interface.
Resume_Program_Allowed	D	Signal latched high indicates the device supports resuming the currently running program. This signal should be used to hide or show a "resume program" option on the user interface.
Program_Running_Progress	A	Integer value indicates the completion percentage of the running program. Percentage range is from 0 to 65535.
Program_Elapsed_Time	S	Text value indicates the amount of time the selected program has been running in hours, minutes, and seconds, formatted as HH:MM:SS.
Program_Remaining_Time	S	Text value indicates the amount of time the selected program still requires for completion in hours, minutes, and seconds, formatted as HH:MM:SS.
Run_Program_Error	S	Text value indicates an error state that prevents the module from running the selected program.
Program_Active_Label	S	Text value indicates the friendly name of the active program.
Operation_Is_Inactive	D	Signal latched high indicates the device appliance is in inactive state. This state indicates the appliance power is in standby.

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Operation_Is_Ready	D	Signal latched high indicates the device appliance is in ready state.
Operation_Is_DelayedStart	D	Signal latched high indicates the device appliance is in delayed start mode.
Operation_Is_Running	D	Signal latched high indicates the device appliance is in running state. This state indicates a program is in progress.
Operation_Is_Paused	D	Signal latched high indicates the device appliance is in paused state. This state indicates a program is halted.
Operation_Is_ActionRequired	D	Signal latched high indicates the device appliance is in action required state.
Operation_Is_Finished	D	Signal latched high indicates the device appliance is in finished state. This state indicates a running program has completed.
Operation_Is_Error	D	Signal latched high indicates the device appliance is in error state.
Operation_Is_Aborting	D	Signal latched high indicates the device appliance is in aborting state. This state indicates a program has been terminated before completing normally.
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.
Door_Is_Locked	D	Signal latched high indicates the device appliance door is locked.
Program_[x]_Is_Available	D	Each signal latched high indicates the program is supported by the device and can be executed through the module (where "x" is the specific program name).
Program_[x]_Is_Selected	D	Any signal latched high indicates the program is the currently selected program on the appliance (where "x" is the specific program name)..
Program_Selected_Label	S	Text value indicates the friendly name of the currently selected program.
Program_Selected_Index	A	Integer value indicates the index value of the currently selected program. This value can be used to drive custom text for the selected program.
OvenTemperature_Is_Available	D	Signal latched high indicates the appliance supports setting the oven temperature through the module.
ProgramDuration_Is_Available	D	Signal latched high indicates the appliance supports setting the program duration through the module.
FastPreheating_Is_Available	D	Signal latched high indicates the appliance supports reporting fast preheating mode to the module. Fast preheating is a read-only value.
OvenTemperature_Min	A	Integer value indicates the minimum temperature limit for the selected program. Value is in units of degree specified by the appliance.

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OvenTemperature_Max	A	Integer value indicates the maximum temperature limit for the selected program. Value is in units of degree specified by the appliance.
OvenTemperature_Step	A	Integer value indicates the incremental change when increasing or decreasing the oven temperature by one step size amount. Value is in units of degree specified by the appliance.
OvenTemperature_CurrentValue	A	Integer value indicates the current oven temperature of the selected program. Value is in units of degree specified by the appliance.
OvenTemperature_CurrentPercent	A	Integer value indicates the current oven temperature of the selected program as a percent. Percent value is scaled from 0 to 65535.
OvenTemperature_CurrentValue_Label	S	Text value indicates the current oven temperature value of the selected program. Value is in units of degree specified by the appliance.
OvenTemperature_Units	S	Text value indicates the oven temperature degree units, such as "°C".
ProgramDuration_Min	A	Integer value indicates the minimum duration limit for the selected program. Value is in units of seconds.
ProgramDuration_Max	A	Integer value indicates the maximum duration limit for the selected program. Value is in units of seconds.
ProgramDuration_Step	A	Integer value indicates the incremental change when increasing or decreasing the program duration by one step size amount. Value is in units of seconds.
ProgramDuration_Hours_CurrentValue	A	Integer value indicates the current number of hours of the selected program.
ProgramDuration_Minutes_CurrentValue	A	Integer value indicates the current number of minutes of the selected program.
ProgramDuration_CurrentValue_Label	S	Text value indicates program duration of the selected program. The text value is formatted as "HH:MM".
FastPreheating_Is_On	D	Signal latched high indicates the appliance is in fast preheating mode.
FastPreheating_CurrentValue_Label	S	Text value indicates the fast preheating mode as "On" or "Off".
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.



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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