Partner: Daikin
Model: Intelligent Touch Controller
Device Type: Multi-zone HVAC

CRESTRON
CERTIFIED **INTEGRATED** PARTNER

GENERAL INFORMATION:

SIMPLWINDOWS NAME:	"Daikin Unit v6.0.umc"
CATEGORY:	HVAC
VERSION:	V. 6.0
SUMMARY:	The "Daikin Unit v6.0.umc" macro represents a Daikin Unit in a Daikin setup.

GENERAL NOTES:	The "Daikin Unit v6.0.umc" macro represents a Daikin Unit in a Daikin setup. The macro has to be used in combination with the "Daikin Controller v6.0.umc" macro. The macro offers functionality to control the operation mode, ventilation mode, ventilation amount, fan speed, fan direction and set point.
	
	Daikin and Crestron recommend the following steps when installing and setting up your Daikin.
	
	1) You must use a 10Mbps Ethernet switch installed within 10 feet of the Daikin ITC.
	2) One of the following Daikin ITC models must be used:
	      USA - DCS601C71 (Low Voltage)
	      International - DCS601C51 (Line Voltage)
	3) For OS version 4.51.00 or higher, the HTTP option must be purchased from Daikin to allow Crestron control. The Web Interface option needs to be purchased from Daikin. Only if the web UI is to be used for control or service.
	    HTTP option:
	        All - DCS007A51.
	    Web Interface option:
	        USA - DCS004A71.
	        International - DCS004A51.
	4) The "GetState" command should not be polled more often than once every 30 seconds. We advise to use 60 seconds or more.
	5) Daikin does not intend the ITC and/or Daikin Remote Controller to be used as a UI when installed with Crestron control. If the ITC and/or Daikin Remote Controller is to be used as a primary UI, please use Daikin BACnet interface and the GLA-BMS available from Crestron and not the IP module.

CRESTRON HARDWARE REQUIRED:	3-Series processor
SETUP OF CRESTRON HARDWARE:	Connect the Crestron processor to the Ethernet interface of the Daikin ITC with a standard CAT5 cable.
VENDOR FIRMWARE:	V. 4.51.00 or higher
VENDOR SETUP:	Connect the Ethernet interface of the Daikin ITC on the same subnet as the Crestron processor.
CABLE DIAGRAM:	Standard CAT5 cable.

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CONTROL:

GetState	D	Pulse to get the current state of the unit.
SetState	D	Pulse to send the current configuration to the unit.
Power_On	D	Pulse to set the PowerMode to On. A pulse to SetState is still required to actually apply the setting
Power_Off	D	Pulse to set the PowerMode to Off. A pulse to SetState is still required to actually apply the setting
Operation_Mode_*	D	Pulse to set the operation mode to - Fan - Heat - Cool - SetPoint - Auto A pulse to SetState is still required to actually apply the setting.
Fan_Speed_*	D	Pulse to set the fan speed to - Low - Middle - High A pulse to SetState is still required to actually apply the setting.
Fan_Direction*	D	Pulse to set the fan direction to - 0..4 - Swing (= direction 7) A pulse to SetState is still required to actually apply the setting.
Set_Point	A	Change to set the "Set Point". This analog value has 1 virtual decimal (a value of 123 means 12,3). A pulse to SetState is still required to actually apply the setting.
Filter_Sign_Reset	D	Pulse to reset the filter sign.

FEEDBACK:

Initialized_Fb	D	High to indicate that the unit is initialized.
ShortName	S	Short Name of the Unit
LongName	S	Long Name of the Unit
Power_*_Fb	D	High to indicate that the Power State (On/Off)
Operation_Mode_*_Fb	D	High to indicate the Operation Mode (Fan, Heat, Cool, SetPoint, Ventilation, Dry, Auto Heat, Auto Cool, Unknown)
Fan_Speed_*_Fb	D	High to indicate the Fan Speed (Low, Middle, High, Unknown)
Fan_Direction_*_Fb	D	High to indicate the Fan Direction (0,1,2,3,4,5,6, Swing, Unknown)
Filter_Sign_Fb	D	High to indicate the Filter Sign is enabled.
Set_Temp_Fb	A	Value to indicate the current Set Point (in C°) with 1 virtual decimal (a value of 123 means 12,3 C°)
Room_Temp_Fb	A	Value to indicate the current Room Temp (in C°) with 1 virtual decimal (a value of 123 means 12,3 C°)
Set_Temp_Enabled_Fb	D	High to indicate the Set Temp is enabled.
Room_temp_Enabled_Fb	D	High to indicate the Room Temp is enabled.
MalfunctionCode_Fb	A	The malfunction Code (see Daikin Specs)
Status_Normal_Fb	D	High to indicate the Status is normal
Status_Error_Fb	D	High to indicate the unit has a Error Status.
Status_Unconnected_Fb	D	High to indicate the unit is not connected.

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PARAMETERS:

Address	S	String that contains the Daikin address of the unit. (format: 1:1-00)
Crestron System ID	A	The Crestron System ID of the Daikin system. This ID must match the system ID that is defined on the Daikin Controller v6.0 module.

TESTING:

OPS USED FOR TESTING:	V. 1.500.0013
SIMPL WINDOWS USED FOR TESTING:	V. 4.03.24
CRESTRON DB USED FOR TESTING:	V. 57.00.003.00
DEVICE DB USED FOR TESTING:	V. 75.07.002.00
SAMPLE PROGRAM:	"Daikin Demo v6.0 CP3.smw"

REVISION HISTORY:	V. 5.0 - Modules were rewritten in Simpl#
	 V. 5.1 - Fixed bug for unit modules that are added to the program but not enabled on the IO module.
	    - Fixed decimals being cut off when setting the setpoint in Celsius mode.
	    - Fixed unit state outputs to output the correct value.
	    - Fixed feedback for Auto Cool and Auto Heat.
	
	 V 6.0 - SetState need to be pulsed for applying the changes. (Only one update command will be send to apply all changes at once. Also there is no need for timers to guess when the set point has to be set)
	
	  - New S# implementation to support the iTm and the iTc.
	
	 Since version 6.0 the support for Farenheit is removed from the unit. Since the physical device does not support Fahrenheit this was confusing. A S+ Module is included to convert values between Celsius, Farenheit and Kelvin.