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

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GENERAL INFORMATION:

SIMPLWINDOWS NAME:	"Daikin ITC Unit v1.1.umc"
CATEGORY:	HVAC
VERSION:	V. 1.1
SUMMARY:	The "Daikin ITC Unit v1.1.umc" macro represents a Daikin Unit in a Daikin setup.
GENERAL NOTES:	The "Daikin ITC Unit v1.1.umc" macro represents a Daikin Unit in a Daikin setup. The macro has to be used in combination with the "Daikin ITC IO v1.1.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 versions before 4.51.00, the Web Interface option must be purchased from Daikin. For OS version 4.51.00, 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 "Poll All" 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 to be used as a UI when installed with Crestron control. If the ITC is to be used as a primary UI, please use the GLA-BMS available from Crestron and not the IP module. 6) There should be a button included on the touch panel called Service. That button Should Be pressed after the Crestron program is reloaded or after the Daikin technician completes servicing the Daikin.
CRESTRON HARDWARE REQUIRED:	2-Series processor with an Ethernet card.
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 to Crestron processor with a standard CAT5 cable.
CABLE DIAGRAM:	Standard CAT5 cable.

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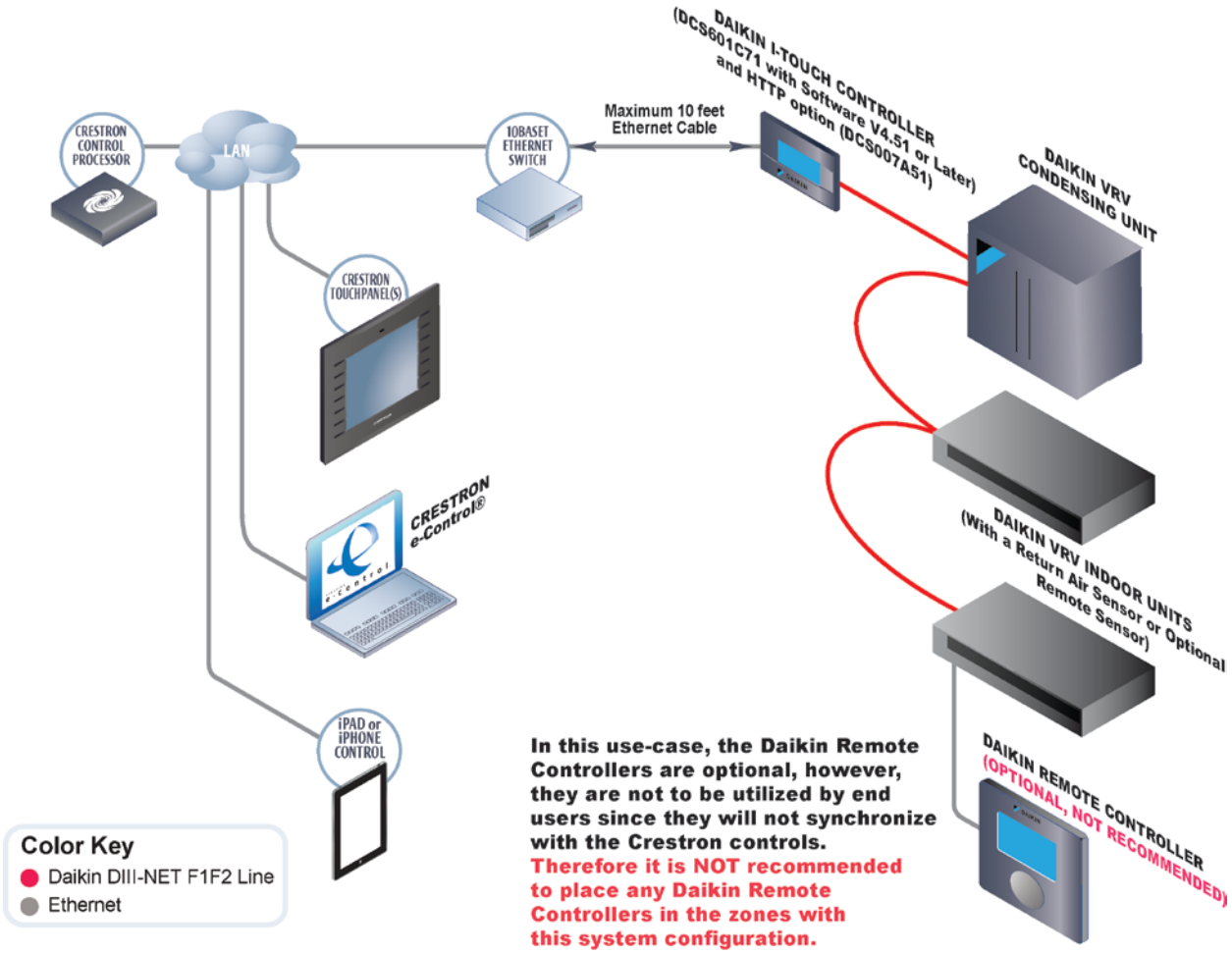

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CONTROL:

[Turn_Unit_On]	D	Pulse to turn unit on.
[Turn_Unit_Off]	D	Pulse to turn unit off.
[Set_Operation_Mode_To_Fan]	D	Pulse to set the operation mode to Fan.
[Set_Operation_Mode_To_Heat]	D	Pulse to set the operation mode to Heat.
[Set_Operation_Mode_To_Cool]	D	Pulse to set the operation mode to Cool.
[Set_Operation_Mode_To_Dependent]	D	Pulse to set the operation mode to Dependent.
[Set_Operation_Mode_To_Dry]	D	Pulse to set the operation mode to Dry.
[Set_Operation_Mode_To_Auto]	D	Pulse to set the operation mode to Auto.
[Set_Ventilation_Mode_To_Auto]	D	Pulse to set the Ventilation mode to Auto.
[Set_Ventilation_Mode_To_HeatExchange]	D	Pulse to set the Ventilation mode to HeatExchange.
[Set_Ventilation_Mode_To_Bypass]	D	Pulse to set the Ventilation mode to Bypass.
[Set_Ventilation_Amount_To_Auto_Normal]	D	Pulse to set the Ventilation Amount to Auto Normal.
[Set_Ventilation_Amount_To_Low_Normal]	D	Pulse to set the Ventilation Amount to Low Normal.
[Set_Ventilation_Amount_To_High_Normal]	D	Pulse to set the Ventilation Amount to High Normal.
[Set_Ventilation_Amount_To_Auto_FreshUp]	D	Pulse to set the Ventilation Amount to Auto FreshUp.
[Set_Ventilation_Amount_To_Low_FreshUp]	D	Pulse to set the Ventilation Amount to Low FreshUp.
[Set_Ventilation_Amount_To_High_FreshUp]	D	Pulse to set the Ventilation Amount to High FreshUp.
[Set_Fan_Speed_To_Low]	D	Pulse to set fan speed to low.
[Set_Fan_Speed_To_Middle]	D	Pulse to set fan speed to Middle.
[Set_Fan_Speed_To_High]	D	Pulse to set fan speed to High.
[Set_Fan_Direction_To_0]	D	Pulse to set the fan direction to 0.
[Set_Fan_Direction_To_1]	D	Pulse to set the fan direction to 1.

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[Set_Fan_Direction_To_2]	D	Pulse to set the fan direction to 2.
[Set_Fan_Direction_To_3]	D	Pulse to set the fan direction to 3.
[Set_Fan_Direction_To_4]	D	Pulse to set the fan direction to 4.
[Set_Fan_Direction_To_Swing]	D	Pulse to set the fan direction to Swing.
[Set_Set_Point]	A	Analog input to change the set point. Range: Fahrenheit: 60 - 90 where 60 stands for 60°F Celsius: 160 – 320 where 160 stands for 16,0°C
[Reset_Filter_Sign]	D	Pulse to reset the filter sign.
Feedback	S	To be connected with the serial output "Unit_x" of the "Daikin ITC IO v1.1" macro where x has to be the same address that was inserted in the parameter field "address" of the "Daikin ITC IO v1.1" macro.

FEEDBACK:

[UnitState_Is_On]	D	High to indicate that the unit is turned on.
[UnitState_Is_Off]	D	High to indicate that the unit is turned off.
[UnitState_Is_Unknown]	D	High to indicate that the state is unknown.
[Status_Is_Normal]	D	High to indicate that the unit is in a normal state.
[Status_Is_Error]	D	High to indicate that the unit is in an error state.
[Unit_Is_Unconnected]	D	High to indicate that the unit is not connected.
[Operation_Mode_Is_Fan]	D	High to indicate that the operation mode is fan.
[Operation_Mode_Is_Heat]	D	High to indicate that the operation mode is Heat.
[Operation_Mode_Is_Cool]	D	High to indicate that the operation mode is Cool.
[Operation_Mode_Is_Dependent]	D	High to indicate that the operation mode is Dependent.
[Operation_Mode_Is_Dry]	D	High to indicate that the operation mode is Dry.
[Operation_Mode_Is_Auto]	D	High to indicate that the operation mode is Auto.
[Operation_Mode_Is_AutoHeat]	D	High to indicate that the operation mode is AutoHeat.

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[Operation_Mode_Is_AutoCool]	D	High to indicate that the operation mode is AutoCool.
[Operation_Mode_Is_Ventilation]	D	High to indicate that the operation mode is Ventilation.
[Operation_Mode_Is_Unknown]	D	High to indicate that the operation mode is Unknown.
[Ventilation_Mode_Is_Auto]	D	High to indicate that the Ventilation mode is Auto.
[Ventilation_Mode_Is_HeatExchange]	D	High to indicate that the Ventilation mode is HeatExchange.
[Ventilation_Mode_Is_Bypass]	D	High to indicate that the Ventilation mode is Bypass.
[Ventilation_Mode_Is_Unknown]	D	High to indicate that the Ventilation mode is Unknown.
[Ventilation_Amount_Is_Auto_Normal]	D	High to indicate that the Ventilation Amount is Auto Normal.
[Ventilation_Amount_Is_Low_Normal]	D	High to indicate that the Ventilation Amount is Low Normal.
[Ventilation_Amount_Is_High_Normal]	D	High to indicate that the Ventilation Amount is High Normal.
[Ventilation_Amount_Is_Auto_FreshUp]	D	High to indicate that the Ventilation Amount is Auto FreshUp.
[Ventilation_Amount_Is_Low_FreshUp]	D	High to indicate that the Ventilation Amount is Low FreshUp.
[Ventilation_Amount_Is_High_FreshUp]	D	High to indicate that the Ventilation Amount is High FreshUp.
[Ventilation_Amount_Is_Unknown]	D	High to indicate that the Ventilation Amount is Unknown.
[Fan_Speed_Is_Low]	D	High to indicate that the fan speed is low.
[Fan_Speed_Is_Middle]	D	High to indicate that the fan speed is Middle.
[Fan_Speed_Is_High]	D	High to indicate that the fan speed is High.
[Fan_Speed_Is_Unknown]	D	High to indicate that the fan speed is Unknown.
[Fan_Direction_Is_0]	D	High to indicate that the fan direction is 0.
[Fan_Direction_Is_1]	D	High to indicate that the fan direction is 1.
[Fan_Direction_Is_2]	D	High to indicate that the fan direction is 2.
[Fan_Direction_Is_3]	D	High to indicate that the fan direction is 3.
[Fan_Direction_Is_4]	D	High to indicate that the fan direction is 4.
[Fan_Direction_Is_Swing]	D	High to indicate that the fan direction is Swing.

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[Fan_Direction_Is_Unknown]	D	High to indicate that the fan direction is Unknown.
[Set_Temp_Is_Enabled]	D	High to indicate that the set point function is enabled.
[Set_Temp_Is_Disabled]	D	High to indicate that the set point function is Disabled.
[Room_Temp_Is_Enabled]	D	High to indicate that the room temperature function is enabled.
[Room_Temp_Is_Disabled]	D	High to indicate that the Room temperature function is Disabled.
[Set_Temperature_Analog]	A	Analog signal indicating the current set point value. Range: Fahrenheit: 60 - 90 where 60 stands for 60°F Celsius: 160 – 320 where 160 stands for 16,0°C
[Room_Temperature_Analog]	A	Analog signal indicating the current Room temperature. Range: Fahrenheit: 60 - 90 where 60 stands for 60°F Celsius: 160 – 320 where 160 stands for 16,0°C
[Filter_Sign_Is_On]	D	High to indicate that the filter sign is on.
[Filter_Sign_Is_Off]	D	High to indicate that the filter sign is off.
[Malfunction_Code_Text]	S	Serial signal indicating the malfunction code.
[Type]	A	Analog signal indicating the type of the unit. values: 0:Unknown, 1:Di(D3), 2:Dio(D3), 3:D3.
[InnerType]	A	Analog signal indicating the Type of the unit. values: 0:Unknown, 1:VRV, 2:HRV
[Short_Name_Text]	S	Serial signal that outputs the short name of the unit.
[Long_Name_Text]	S	Serial signal that outputs the Long name of the unit.
Command	S	To be connected with the serial input signal "Command" of the "Daikin ITC IO v1.0" macro.

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PARAMETERS:

Address	S	String that contains the Daikin address of the unit.
Set_Temp_TimeOut	Sec	Parameter that determines the amount of seconds to wait before sending the new set point. The timer will start to count when the "[Set_Set_Point]" analog input stops changing.
Temperature Type	A	Parameter that determines the temperature measurement used in this module. 1d: Celsius 2d: Fahrenheit
Reference Name	S	Parameter that indicates the name that will be used in error messages.

TESTING:

OPS USED FOR TESTING:	V. 4.001.1012
SIMPL WINDOWS USED FOR TESTING:	V. 2.12.39
CRESTRON DB USED FOR TESTING:	V. 21.04.015.00
DEVICE DB USED FOR TESTING:	V. 27.05.003.00
SAMPLE PROGRAM:	"Daikin ITC v1.1 PRO2 Demo.smw"
REVISION HISTORY:	V. 1.1

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