Title:	i-Controller 2.0 I/O List

Overview

This document outlines the I/O points for the i-Controller 2.0 VCCX, RSMD and EM1.

VCCX

Input	Description	Input Point #	Output	Description	Output Point #
	Analog Inputs			*Analog Outputs*	
1	Supply Temp Signal	VCCX - AI3	1	Supply Fan VFD	VCCX - AO1
2	Outside Air Temperature	VCCX - AI7	2	Outside Air Damper	VCCX - AO2
3	Return Air Temperature	VCCX - AI4	3	Modulating Heat	VCCX - AO3
	Digital Inputs			*Digital Outputs*	
1	Clogged Filter	VCCX - BI2	1	Supply Fan	VCCX - RLY 1
2	Emergency Shutdown	VCCX - BI8	2	Heat Stage 1	VCCX - RLY 2
3	Airflow Switch	VCCX - BI1	3	Heat Stage 2	VCCX - RLY 3
			4	Heat Stage 3	VCCX - RLY 4
			5	Heat Stage 4	VCCX - RLY 5
			6	Heat Wheel Enable (ERV)	VCCX - RLY 6
			7	Chilled Water Valve	VCCX - RLY 7
			8	Alarm Indicator	VCCX - RLY 8

RSMD (1 per Suction Group) – Separate Circuits

Input	Description	Input Point #	Output	Description	Output Point #
	Analog Inputs			*Analog Outputs*	
1	Suction Pressure 1	RSMD - SP1	1	Condenser 1 Signal	RSMD - AO1
2	Suction Pressure 2	RSMD - SP2	2	Condenser 2 Signal	RSMD - AO2
3	Discharge Pressure 1	RSMD - HP1		*Triac Output*	
4	Discharge Pressure 2	RSMD - HP2	1	Dig Comp 1 or Comp 1 Stage 2	RSMD - COMP1
5	Discharge Temp 1	RSMD - AI1	2	Dig Comp 2 or Comp 2 stage 2	RSMD - COMP2
6	Discharge Temp 2	RSMD - AI2		*Digital Outputs*	
7	Leaving Water Temp (WSHP)	RSMD - AI3	1	Compressor 1 Enable	RSMD - RLY1
	Digital Inputs		2	Compressor 2 Enable	RSMD - RLY2
1	Compressor 1 Status	RSMD - BI1	3	Condenser 1 Enable	RSMD - RLY3
2	Compressor 2 Status	RSMD - BI2	4	Condenser 2 Enable	RSMD - RLY4
3	Proof of Water Flow (WSHP)	RSMD - BI3	5	Reversing Valve (WSHP)	RSMD - RLY5
4	Emergency Shutdown	RSMD - BI4			

EM1

Input	Description	Input Point #	Output	Description	Output Point #
	Analog Inputs			*Analog Outputs*	
	Digital Inputs		1	Return Air Damper	EM1 - AO2
			2	Bypass Air Damper	EM1 - AO3
				Digital Outputs	
			1	Reheat 1 (On/Off)	EM1 - RLY 1
			2	Reheat 2 (On/Off)	EM1 - RLY 2