



# Modbus Register Map: InfraStruXure InRow RC

990-2891

01/2006

//Absolute Starting Register Number, (Hexadecimal)	Absolute Starting Register Number, (Decimal)	Data Point	R/W	Length	Units	Valid Response				
// InRow RC Group										
0000	0	OVERALL_STATUS	R	1	ENUM	0 = No Alarm	2 = Informational	4 = Warning	8 = Critical	
0001	1	GROUP_COOL_OUTPUT	R	2	LONG	(Tenths) kW				
0003	3	GROUP_COOL_DEMAND	R	2	LONG	(Tenths) kW				
0005	5	COOL_SETPOINT	R/W	2	LONG	(Tenths Deg) F				
0007	7	SUPPLY_AIR_SETPOINT	R/W	2	LONG	(Tenths Deg) F				
0009	9	GROUP_AIR_FLOW	R	2	LONG	CFM				
000B	11	GROUP_MAX_RACK_TEMP	R	2	LONG	(Tenths Deg) F				
000D	13	GROUP_MIN_RACK_TEMP	R	2	LONG	(Tenths Deg) F				
000F	15	FAN_SPEED_PREFERENCE	R/W	1	ENUM	0 = Low	1 = Med-Low	2 = Med	3 = Med-High	4 = High
0010	16	NUM_OF_UNITS	R/W	2	LONG	N/A				
0012	18	CONFIGURATION_TYPE	R/W	1	ENUM	0 = RACS	1 = HACS	2 = InRow		
0013	19	COOL_PID_P	R/W	2	LONG	(Hundredths) Unitless				
0015	21	COOL_PID_I	R/W	2	LONG	(Hundredths) Unitless				
0017	23	COOL_PID_D	R/W	2	LONG	(Hundredths) Unitless				
0019	25	PERCENT_GLYCOL	R/W	2	LONG	%				
001B	27	GROUP_RESERVED_REGISTERS	R	101	NA	Reserved				
// InRow RC Unit										
0080	128	UNIT_NAME	R/W	21	ASCII	N/A				
0095	149	UNIT_LOCATION	R/W	21	ASCII	N/A				
00AA	170	UNIT_ID	R/W	2	LONG	N/A				
00AC	172	MODEL_NUM	R	10	ASCII	N/A				
00B6	182	SERIAL_NUM	R	10	ASCII	N/A				
00C0	192	FIRMWARE_REV	R	4	ASCII	N/A				
00C4	196	HARDWARE_REV	R	4	ASCII	N/A				
00C8	200	DATE_OF_MANUFACTURE	R	6	ASCII	mm/dd/yyyy				
00CE	206	OPERATE_MODE	R	1	ENUM	0 = Standby	1 = On	2 = idle		
00CF	207	UNIT_COOL_OUTPUT	R	2	LONG	(Tenths) kW				
00D1	209	UNIT_COOL_DEMAND	R	2	LONG	(Tenths) kW				
00D3	211	RACK_INLET_TEMP	R	2	LONG	(Tenths Deg) F				
00D5	213	SUPPLY_TEMP	R	2	LONG	(Tenths Deg) F				
00D7	215	RETURN_TEMP	R	2	LONG	(Tenths Deg) F				
00D9	217	UNIT_AIR_FLOW	R	2	LONG	CFM				
00DB	219	FAN_SPEED	R	2	LONG	(Tenths) %				

//Absolute Starting Register Number, (Hexadecimal)	Absolute Starting Register Number, (Decimal)	Data Point	R/W	Length	Units	Valid Response				
00DD	221	ACTIVE_POWER_SOURCE	R	1	ENUM	0 = A	1 = B			
00DE	222	FILTER_DP	R	2	LONG	(Hundredths) in W.C.				
00E0	224	CONTAINMENT_DP	R	2	LONG	(Hundredths) in W.C.				
00E2	226	FLUID_VALVE_POS	R	2	LONG	% Open				
00E4	228	FLUID_FLOW	R	2	LONG	(Tenths) GPM				
00E6	230	FLUID_TEMP_IN	R	2	LONG	(Tenths Deg) F				
00E8	232	FLUID_TEMP_OUT	R	2	LONG	(Tenths Deg) F				
00EA	234	AIR_FILTER_RUNHOUR	R	2	LONG	Hours				
00EC	236	FAN_1_RUNHOUR	R	2	LONG	Hours				
00EE	238	FAN_2_RUNHOUR	R	2	LONG	Hours				
00F0	240	FAN_3_RUNHOUR	R	2	LONG	Hours				
00F2	242	FAN_4_RUNHOUR	R	2	LONG	Hours				
00F4	244	FAN_5_RUNHOUR	R	2	LONG	Hours				
00F6	246	FAN_6_RUNHOUR	R	2	LONG	Hours				
00F8	248	FAN_7_RUNHOUR	R	2	LONG	Hours				
00FA	250	FAN_8_RUNHOUR	R	2	LONG	Hours				
00FC	252	FAN_LEFT_PWRSP_RUNHOUR	R	2	LONG	Hours				
00FE	254	FAN_RIGHT_PWRSP_RUNHOUR	R	2	LONG	Hours				
0100	256	CONDS_PUMP_RUNHOUR	R	2	LONG	Hours				
0102	258	AIR_FILTER_SERVICE_INTERVAL	R/W	2	LONG	Weeks				
0104	260	AIR_FILTER_SERVICE_INTERVAL_ALARM	R/W	1	ENUM	0 = Enable	1 = Disable			
0105	261	RACK_TEMP_HIGH_THRESH	R/W	2	LONG	(Tenths Deg) F				
0107	263	SPLY_AIR_TEMP_HIGH_THRESH	R/W	2	LONG	(Tenths Deg) F				
0109	265	RTN_AIR_TEMP_HIGH_THRESH	R/W	2	LONG	(Tenths Deg) F				
010B	267	IN_FLUID_TEMP_HIGH_THRESH	R/W	2	LONG	(Tenths Deg) F				
010D	269	STARTUP_DELAY	R/W	2	LONG	sec				
010F	271	COOL_CAPACITY	R/W	1	ENUM	0 = Automatic	1 = Maximum			
0110	272	IDLE_ON_LEAK	R/W	1	ENUM	0 = Yes	1 = No			
0111	273	INPUT_NORMAL	R/W	1	ENUM	0 = Open	1 = Closed			
0112	274	INPUT_STATE	R	1	ENUM	0 = Open	1 = Closed			
0113	275	OUTPUT_NORMAL	R/W	1	ENUM	0 = Open	1 = Closed			
0114	276	OUTPUT_STATE	R	1	ENUM	0 = Open	1 = Closed			
0115	277	OUTPUT_SOURCE	R/W	1	ENUM	0 = Any Alarm	1 = Critical Alarms			
0116	278	POWER_SOURCE	R/W	1	ENUM	0 = A only	1 = B only	2 = A & B		
0117	279	UNIT_RESERVED_REGISTERS	R	105	NA	Reserved				

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// InRow RC Faults										
0180	384	COOL_FAIL	R	1	ENUM	0 = Clear	1 = Alarm			
0181	385	HIGH_RACK_TEMP	R	1	ENUM	0 = Clear	1 = Alarm			
0182	386	AIR_FILTER_CLOGGED	R	1	ENUM	0 = Clear	1 = Alarm			
0183	387	LWR_RTN_AIR_SENSOR_FAULT	R	1	ENUM	0 = Clear	1 = Alarm			
0184	388	UPR_RTN_AIR_SENSOR_FAULT	R	1	ENUM	0 = Clear	1 = Alarm			
0185	389	LWR_SPLY_AIR_SENSOR_FAULT	R	1	ENUM	0 = Clear	1 = Alarm			
0186	390	UPR_SPLY_AIR_SENSOR_FAULT	R	1	ENUM	0 = Clear	1 = Alarm			
0187	391	RACK_TEMP_SENSOR_FAULT	R	1	ENUM	0 = Clear	1 = Alarm			
0188	392	FLUID_VALVE_ACT_FAULT	R	1	ENUM	0 = Clear	1 = Alarm			
0189	393	FAN_1_FAULT	R	1	ENUM	0 = Clear	1 = Alarm			
018A	394	FAN_2_FAULT	R	1	ENUM	0 = Clear	1 = Alarm			
018B	395	FAN_3_FAULT	R	1	ENUM	0 = Clear	1 = Alarm			
018C	396	FAN_4_FAULT	R	1	ENUM	0 = Clear	1 = Alarm			
018D	397	FAN_5_FAULT	R	1	ENUM	0 = Clear	1 = Alarm			
018E	398	FAN_6_FAULT	R	1	ENUM	0 = Clear	1 = Alarm			
018F	399	FAN_7_FAULT	R	1	ENUM	0 = Clear	1 = Alarm			
0190	400	FAN_8_FAULT	R	1	ENUM	0 = Clear	1 = Alarm			
0191	401	WATER_DETECTED	R	1	ENUM	0 = Clear	1 = Alarm			
0192	402	CONDS_PUMP_FAULT	R	1	ENUM	0 = Clear	1 = Alarm			
0193	403	FLUID_FLOW_FAULT	R	1	ENUM	0 = Clear	1 = Alarm			
0194	404	HIGH_FLUID_TEMP_IN	R	1	ENUM	0 = Clear	1 = Alarm			
0195	405	IN_FLUID_TEMP_SENSOR_FAULT	R	1	ENUM	0 = Clear	1 = Alarm			
0196	406	OUT_FLUID_TEMP_SENSOR_FAULT	R	1	ENUM	0 = Clear	1 = Alarm			
0197	407	CONDENSATE_PAN_FULL	R	1	ENUM	0 = Clear	1 = Alarm			
0198	408	POWER_SOURCE_A_FAIL	R	1	ENUM	0 = Clear	1 = Alarm			
0199	409	POWER_SOURCE_B_FAIL	R	1	ENUM	0 = Clear	1 = Alarm			
019A	410	FAN_PWRSP_LEFT_FAULT	R	1	ENUM	0 = Clear	1 = Alarm			
019B	411	FAN_PWRSP_RIGHT_FAULT	R	1	ENUM	0 = Clear	1 = Alarm			
019C	412	AIR_FILTER_RUNHOUR_VIOLATION	R	1	ENUM	0 = Clear	1 = Alarm			
019D	413	DP_RACS_HIGH_FAULT	R	1	ENUM	0 = Clear	1 = Alarm			
019E	414	INPUT_CONTACT_FAULT	R	1	ENUM	0 = Clear	1 = Alarm			
019F	415	GROUP_COMM_FAULT	R	1	ENUM	0 = Clear	1 = Alarm			
01A0	416	SUPPLY_HIGH_TEMP_FAULT	R	1	ENUM	0 = Clear	1 = Alarm			
01A1	417	RETURN_HIGH_TEMP_FAULT	R	1	ENUM	0 = Clear	1 = Alarm			
01A2	418	DP_FILTER_SENSOR_FAULT	R	1	ENUM	0 = Clear	1 = Alarm			
01A3	419	DP_CONTAINMENT_SENSOR_FAULT	R	1	ENUM	0 = Clear	1 = Alarm			

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// Logging Registers										
FFEE	65518	APC RX CRC ERRORS	R	2	LONG	RX CRC ERRORS				
FFF0	65520	APC RX PACKET COUNTER	R	2	LONG	RX PACKET COUNTER				
FFF2	65522	APC TX PACKET COUNTER	R	2	LONG	TX PACKET COUNTER				
FFF4	65524	APC SER FRAME ERRORS	R	2	LONG	SER FRAME ERRORS				
FFF6	65526	APC SER OVERRUN ERRORS	R	2	LONG	SER OVERRUN ERRORS				
FFF8	65528	APC SER PARITY ERRORS	R	2	LONG	SER PARITY ERRORS				
FFFA	65530	APC SER RX15 ERRORS	R	2	LONG	SER RX15 ERRORS				
FFFC	65532	APC SER RX35 ERRORS	R	2	LONG	SER RX35 ERRORS				
FFFE	65534	APC SER BAUD RATE	R	1	INTEGER	SER BAUD RATE				
// END OF DATA										
Note 1: ASCII strings include Null terminator.										
Note 2: To prevent Building Management Service and automated script difficulties, accesses to data points on unsupported units will return a value of 0 instead of an error.										
Note 3: Accesses to items before data is available will result in an invalid address error.										