

UCW/H/R Master Alarms

Alarm in Mode



Alarm Name	Alarm BACnet Point Name	Input Type	Self Reset?	# Trips to Alarm	Off	Run	Trip Condition
CHRT_HI	chwr_hi_1	Temp	Yes	1	No	Yes	Chilled Water Inlet Temp too High > 5 min
CHRT_LO	chwr_lo_1	Temp	Yes	1	No	Yes	Chilled Water Inlet Temp too Low > 10 sec
CHST_HI	chwst_hi_1	Temp	Yes	1	No	Yes	Chilled Water Outlet Temp too High > 5 min
CHST_LO	chwst_lo_1	Temp	Yes	1	No	Yes	Chilled Water Outlet Temp too Low > 10 sec
CHWR Out of Range	chwr_oor_1	Temp	No	1	No	Yes	Sensor Disconnected or shorted, bad 5vdc supply
CHWS Out of Range	chws_oor_1	Temp	No	1	No	Yes	Sensor Disconnected or shorted, bad 5vdc supply
CWR Out of Range	cwr_oor_1	Temp	No	1	No	Yes	Sensor Disconnected or shorted, bad 5vdc supply
CWS Out of Range	cws_oor_1	Temp	No	1	No	Yes	Sensor Disconnected or shorted, bad 5vdc supply
CWRT_HI	cwrt_hi_1	Temp	Yes	1	No	Yes	Condenser Water Outlet Temp too High > 10 sec
CWRT_LO	cwrt_lo_1	Temp	Yes	1	No	Yes	Condenser Water Outlet Temp too Low > 5 min
CWST_HI	cwst_hi_1	Temp	Yes	1	No	Yes	Condenser Water Inlet Temp too High > 10 sec
CWST LO	cw_lo_1	Temp	Yes	1	No	Yes	Condenser Water Inlet Temp too Low > 5 min
No Flow Alarm	no_flow_1	Digital or psid	Yes	1	No	Yes	Loss of Water Flow for > 5 sec
CW PSI Out of Range	cwpsi_oor_1	Digital or psid	Yes	1	No	Yes	Sensor Disconnected or shorted, bad 5vdc supply (-5.00 to + 46.00)
CHW PSI Out of Range	chwpsi_oor_1	Digital or psid	Yes	1	No	Yes	Sensor Disconnected or shorted, bad 5vdc supply (-5.00 to + 48.00)
No Modules Available Alarm	o263_1	Calc	Yes	1	No	Yes	No Modules available for operation
Phase Alarm	phase_alarm_1	Digital	No	1	Yes	Yes	Loss of Phase, High Voltage, Low Voltage, or Phase Imbalance for > 1 sec

UCW/H/R Module Alarms

Alarm in Mode

Alarm Name	Alarm BACnet Point Name	Input Type	Self Reset?	# Trips to Alarm	Lockout Comp	Lockout Module	Off	Run	Trip Condition
Mx High Chill Water Out Temp	mx_chwst_hi_5	Temp	No	1	Yes - Both	Yes	No	> 1 Minute	> 90 Degrees for 2 minutes AND after startup delay of 5 minutes
Mx Freeze Alarm Chill Water Out Temp	mx_freeze_trg_5	Temp	No	3	Yes - Both	Yes	Yes	Yes	< 36 degrees for 15 seconds
Mx High Cond. Water Out Temp	mx_cwrt_hi_5	Temp	No	3	Yes - Both	Yes	Yes	Yes	> 140 Degrees for 15 minutes
Mx Low Cond. Water Out Temp	mx_cwrt_lo_5	Temp	No	1	Yes - Both	Yes	No	> 1 Minute	< 60 degrees for 2 minutes AND after startup delay of 5 minutes
MxC1 Low Press Sensor OOR	mxcp2_oor_5	Pressure	No	1	Yes	No	Yes	Yes	Sensor Disconnected or shorted, bad 5vdc supply
MxC2 Low Press Sensor OOR	mxcp2_oor_5	Pressure	No	1	Yes	No	Yes	Yes	Sensor Disconnected or shorted, bad 5vdc supply
MxC1 High Press Sensor OOR	mxcp1_oor_5	Pressure	No	1	Yes	No	Yes	Yes	Sensor Disconnected or shorted, bad 5vdc supply
MxC2 High Press Sensor OOR	mxcp1_oor_5	Pressure	No	1	Yes	No	Yes	Yes	Sensor Disconnected or shorted, bad 5vdc supply
MxC1 Hi Disch Temp Sensor OOR	mxct1_oor_5	Temp	No	1	Yes	No	Yes	Yes	Sensor Disconnected or shorted, bad 5vdc supply
MxC2 Hi Disch Temp Sensor OOR	mxct1_oor_5	Temp	No	1	Yes	No	Yes	Yes	Sensor Disconnected or shorted, bad 5vdc supply
MxC1 Low Suct Temp Sensor OOR	mxct2_oor_5	Temp	No	1	Yes	No	Yes	Yes	Sensor Disconnected or shorted, bad 5vdc supply
MxC2 Low Suct Temp Sensor OOR	mxct2_oor_5	Temp	No	1	Yes	No	Yes	Yes	Sensor Disconnected or shorted, bad 5vdc supply
MxC1 Extra Lo Pressure Alarm	mxcl_lo_lo_suc_pres_alm_5	Pressure	No	3	Yes	No	No	Yes	C1 Suction Press < 5psi and Compressor 1 on, loss of refrigerant charge
MxC2 Extra Lo Pressure Alarm	mxcl_lo_lo_suc_pres_alm_5	Pressure	No	3	Yes	No	No	Yes	C2 Suction Press < 5psi and Compressor 2 on, loss of refrigerant charge
MxC1 Low Pressure Alarm	mxcl_lo_suc_pres_alm_5	Pressure	No	3	Yes	No	No	Yes	C1 Suction Press < 90 for 60 seconds AND Comp 1 on
MxC2 Low Pressure Alarm	mxcl_lo_suc_pres_alm_5	Pressure	No	3	Yes	No	No	Yes	C2 Suction Press < 90 for 60 seconds AND Comp 2 on
MxC1 Highside Press Alarm	mxcl_hi_pres_alm_5	Pressure	No	3	Yes	No	Yes	Yes	C1 Disch Press > 565 for 2 seconds
MxC2 Highside Press Alarm	mxcl_hi_pres_alm_5	Pressure	No	3	Yes	No	Yes	Yes	C2 Disch Press > 565 for 2 seconds
MxC1 Low Suct Temp	mxcl_lo_suc_tmp_5	Temp	No	3	Yes	No	Yes	Yes	C1 Suction Temp < 32 for 15 seconds
MxC2 Low Suct Temp	mxcl_lo_suc_tmp_5	Temp	No	3	Yes	No	Yes	Yes	C2 Suction Temp < 32 for 15 seconds
MxC1 Hi Disch Temp	mxcl_hi_disch_tmp_5	Temp	No	3	Yes	No	Yes	Yes	C1 Discharge Temp > 225 for 15 seconds
MxC2 Hi Disch Temp	mxcl_hi_disch_tmp_5	Temp	No	3	Yes	No	Yes	Yes	C2 Discharge Temp > 225 for 15 seconds
MxC1 No Run (No Status) Alarm	mxcl_no_run_5	Digital	No	3	Yes	No	No	Yes	C1 does not show status 600 seconds
MxC2 No Run (No Status) Alarm	mxcl_no_run_5	Digital	No	3	Yes	No	No	Yes	C2 does not show status 600 seconds
Condenser Motorized Valve	mxcond_vlv_al_5	Digital	No	1	Yes	Yes	Yes	Yes	Valve Fails to report open after 400 Seconds
Evaporator Motorized Valve	mxevap_vlv_al_5	Digital	No	1	Yes	Yes	Yes	Yes	Valve Fails to report open after 400 Seconds
C1 Low Suction Superheat	mxcl_lo_suc_supht_5	Calc	Yes	1	No	No	Yes	Yes	Superheat below 2
C1 High Suction Superheat	mxcl_hi_suc_supht_5	Calc	No	1	No	No	Yes	Yes	Superheat above 30 AND Comp 1 on for minimum run
C2 Low Suction Superheat	mxcl_lo_suc_supht_5	Calc	Yes	1	No	No	Yes	Yes	Superheat below 2
C2 High Suction Superheat	mxcl_hi_suc_supht_5	Calc	No	1	No	No	Yes	Yes	Superheat above 30 AND Comp 2 on for minimum run

OOR - Out of range

Mx (or) mx - x indicates module number in the bank