



DELTA CONTROLS FAULT CODE LIST

LEVEL: Level 1 faults prevent or stop all operations (Pumps and Cooling Components).
Level 2 faults prevent or stop Cooling operations only. The pump(s) will continue to operate and circulate to provide residual cooling until another fault level is exceeded.

LEVEL	FAULT CODE	DESCRIPTION	Pump Only	Cooling Cycle
2	9011	Current Sensing Fault on Compressor A1 (No current detected when commanded for more than 60seconds)		X
2	9021	Current Sensing Fault on Compressor A2 (No current detected when commanded for more than 60seconds)		X
2	9031	Current Sensing Fault on Compressor A3 (No current detected when commanded for more than 60seconds)		X
2	9012	Current Sensing Fault on Compressor B1 (No current detected when commanded for more than 60seconds)		X
2	9022	Current Sensing Fault on Compressor B2 (No current detected when commanded for more than 60seconds)		X
2	9032	Current Sensing Fault on Compressor B3 (No current detected when commanded for more than 60seconds)		X
1	9110	Process Value has Deviated Higher Than Set Value Limit without lowering within time period (approx 30 minutes) - If this occurs and the cause is known, then raise the SV to be closer to the PV to permit recirculating system.	X	X
1	9120	Process Value Temperature Too High	X	X
2	9131	High Compressor Discharge Temperature (A circuit)		X
2	9132	High Compressor Discharge Temperature (B circuit)		X
2	9201	High Refrigerant Pressure at Startup (High Pressure Switch is open) (A circuit)		X
2	9202	High Refrigerant Pressure at Startup (High Pressure Switch is open) (B circuit)		X
2	9211	High Refrigerant Pressure during Operation (High Pressure Switch is open) (A circuit)		X
2	9212	High Refrigerant Pressure during Operation (High Pressure Switch is open) (B circuit)		X
2	9221	High Refrigerant Pressure during Operation (High Pressure value exceeded) (A circuit)		X
2	9222	High Refrigerant Pressure during Operation (High Pressure value exceeded) (B circuit)		X
1	9301	Low Refrigerant Pressure at initial start or during Pump Operation (A circuit)	X	X
1	9302	Low Refrigerant Pressure at initial start or during Pump Operation (B circuit)	X	X
1	9311	Low Pressure Condition when in cooling mode with no compressors operating (A circuit)		X
1	9321	Low Pressure Condition during Compressor Operation after Initial Compressor Start Bypass Timer (A circuit)		X
1	9312	Low Pressure Condition when in cooling mode with no compressors operating (B circuit)		X
1	9322	Low Pressure Condition during Compressor Operation after Initial Compressor Start Bypass Timer (B circuit)		X
1	9341	Low Pressure Condition with switch in OFF (A circuit) – Resolve issue, then cycle power to chiller to reset.	O	O
1	9342	Low Pressure Condition with switch in OFF (B circuit) – Resolve issue, then cycle power to chiller to reset.	O	O
1	9400	No Fluid Flow. Flow was not established in the initial time period. (Typically, within 5 seconds)	X	X
1	9410	Fluid Flow Loss for more than time period or Excessive Cycling of Flow Switch within time period.	X	X
2	9500	Refrigerant Suction Temperature Low (Flow Safety Thermostat is open) when compressors initially started and did not close within specific time. Possibly due to inconsistent flow. *If setup, the PC2 auxiliary contact may be included on this fault and will alarm if Process Pump not On.		X
2	9510	Refrigerant Suction Thermostat Open at Startup (Suction Temperature Low) *If setup, the PC2 auxiliary contact may be included on this fault and will alarm if Process Pump not On.		X
2	9541	Refrigerant Suction Temperature Low on A Circuit.		X
2	9542	Refrigerant Suction Temperature Low on B Circuit.		X
1	9700	Chiller Pump Safety circuit is tripped at Startup	X	X
1	9710	Chiller Pump Safety circuit tripped after operating for some time.	X	X
1	9740	Chiller Tank Low Level	X	X
1	9800	Loss of Communications when in Pump Only or Cooling Cycle	X	X
1	9810	Loss of Communications between Temperature Controller and PLC	X	X
1	9820	Loss of Communications between Temperature Controller and Temperature Sensor/Thermocouple - Temperature Controller will show “no Cont” on until probe is repaired.	X	X
1	9830	Loss of Communications split chiller sections (Condenser HMI1 not heard from Skid HMI2)	X	X
1	9831	Loss of Communications split chiller sections (Skid HMI2 not heard from Condenser HMI1)	X	X

(Legend: O is Off Position, X is listed column position, Blank is not relevant)