

Alarm Codes



Alarm codes for Samurai Chiller

If the unit is operated under abnormal conditions, an alarm code (refer to the table below) is indicated and the "Alarm" LED lamp is lighted. Function of 7-Segment Light Emitted Diode on Control Panel is as shown in the table below.

SEG.1
88

SEG.2
88

7 Segments on Control Panel

Code					Content
No. 1 Cycle	No. 2 Cycle	No. 3 Cycle	No. 4 Cycle	No. 5 Cycle	
C1 H1	C2 H3	C3 H3	C4 H4	C5 H5	Activation of High Pressure Switch
C1 L1	C2 L2	C3 L3	C4 L4	C5 L5	Activation of Low Pressure Protection Control
C1 L1	C2 L2	C3 L3	C4 L4	C5 L5	Excessively Low Pressure
C1 S1	C2 S2	C3 S3	C4 S4	C5 S5	Activation of Thermal Relay for Compressor or Malfunction of Auxiliary Relay ARn
C1 G1	C2 G2	C3 G3	C4 G4	C5 G5	Activation of Discharge Gas Thermistor
C1 I1	C2 I2	C3 I3	C4 I4	C5 I5	Activation of Compressor Internal Thermostat
C1 T1	C2 T2	C3 T3	C4 T4	C5 T5	Excess Low Temperature of Cooler Inlet Refrigerant
C1 S1	C2 S2	C3 S3	C4 S4	C5 S5	Activation of Suction Gas Thermistor
C1 O5	C2 O5	C3 O5	C4 O5	C5 O5	Phase Abnormally
C1 W2	C2 W2	C3 W2	C4 W2	C5 W2	Failure of Water Outlet Thermistor (Only for 2 - 5 cycle unit)
C1 F3	C2 F3	C3 F3	C4 F3	C5 F3	Activation of Freeze Protection Control (More Than 2 Cycle Unit)
C1 C2	C2 C2	C3 C2	C4 C2	C5 C2	Failure of Cooler inlet Refrigerant Thermistor (Open / Short)
C1 D2	C2 D2	C3 D2	C4 D2	C5 D2	Failure of Discharge Gas Thermistor (Open / Short)
C1 E2	C2 E2	C3 E2	C4 E2	C5 E2	Failure of Thermistor set before Expansion Valve
C1 W2	C2 W2	C3 W2	C4 W2	C5 W2	Failure of Water Outlet Thermistor (Rear side of Water Cooler)
C1 S2	C2 S2	C3 S2	C4 S2	C5 S2	Failure of Suction Gas Thermistor (Open / Short)
C1 D2	C2 D2	C3 D2	C4 D2	C5 D2	Failure of Discharge Gas Pressure Sensor (Open / Short)
C1 S2	C2 S2	C3 S2	C4 S2	C5 S2	Failure of Suction Gas Pressure Sensor (Open / Short)
C1 F0	C2 F0	C3 F0	C4 F0	C5 F0	Incorrect Setting of Fan Number
F1 I1	F2 I1	F3 I1	F4 I1	F5 I1	Fan Inverter Rotation Abnormally *1
F1 O1	F2 O1	F3 O1	F4 O1	F5 O1	Activation of Fan Inverter Over Current Protection Control *1
F1 P1	F2 P1	F3 P1	F4 P1	F5 P1	Fan Inverter Phase Abnormally *1
F1 E1	F2 E1	F3 E1	F4 E1	F5 E1	Error Communication between Inverter PCB and Control or Fan Control PCB *1
F1 P1	F2 P1	F3 P1	F4 P1	F5 P1	Inverter Power Supply Abnormally *1

For full technical details, refer to Technical Manual

Alarm Codes

Self Inspection Functions for **Samurai Chiller**

Continued...

Code					Content
No. 1 Cycle	No. 2 Cycle	No. 3 Cycle	No. 4 Cycle	No. 5 Cycle	
		01 01			Failure of Auxiliary Relay for starting
		05 05			Phase Abnormally
		11 11			Failure of Water Inlet Temperature Thermistor
		12 12			Failure of Water Outlet Thermistor (Only for Single Cycle Unit)
		13 13			Activation of Thermal Relay for Compressor or Malfunction of Auxiliary Relay ARn
		22 22			Failure of Ambient Temperature Thermistor (Open / Short)
		2C 2C			Water Supply Header Temperature Thermistor
		2d 2d			Water Return Header Temperature Thermistor
		5P 5P			No Feedback Signal from Water Pump
		40 40			Incorrect Operation
		EU EU			Error Communication between Expansion Valve PCB and Control PCB
		Fc Fc			Error Communication between Fan Control PCB and Control PCB
		CP CP			Error Communication between Control PCB (PCBc1, PCBc2)
		"PU" "PU"			Alarm of Excessively High Water Temperature
		6E 6E			Alarm of Water Failure (Differential Pressure Switch or Flow Switch Option)
		AP AP			Activation of Additional Protection Device
		03 03			Error Communication between Chiller and Remote Controller (If CSC-5S is connected.)
F1 P7 F2 P7 F3 P7 F4 P7 F5 P7					Retry Operation (More Than 3 Fans Retry at The Same Time)
F1 P8 F2 P8 F3 P8 F4 P8 F5 P8					Retry Operation (by Alarm Fx-41 or Fx-51, x: Cycle No.)
C1 P5 C2 P5 C3 P5 C4 P5 C5 P5					Retry Operation (by Alarm Cx-6x or Cx-7x, x: Cycle No.)
C1 28 C2 28 C3 28 C4 28 C5 28					Failure of Suction Gas Pressure Sensor (Open / Short)
C1 P6 C2 P6 C3 P6 C4 P6 C5 P6					Retry Operation (by Alarm Cx-9x or Cx-Lx, x: Cycle No.)

"" : Flickering, "1" : **21** Right side segment shows Fan No.

Normal Indication

If the unit is operated under a normal operation condition, the operation code (refer to the table below) is indicated on 7-Segment LED's of the control panel.

Code					Content
No. 1 Cycle	No. 2 Cycle	No. 3 Cycle	No. 4 Cycle	No. 5 Cycle	
C1 88 C2 88 C3 88 C4 88 C5 88					Power Supply, After Stoppage
C1 Co C2 Co C3 Co C4 Co C5 Co					Cooling Operation
C1 oF C2 oF C3 oF C4 oF C5 oF					Stoppage by Thermo-OFF
		PUPU			Pump Operation, Warning of Pump Feedback
C1 Ct C2 Ct C3 Ct C4 Ct C5 Ct					Activation of Current Limiter
C1 E0 C2 E0 C3 E0 C4 E0 C5 E0					Initializing Electronic Expansion Valve

For full technical details, refer to Technical Manual