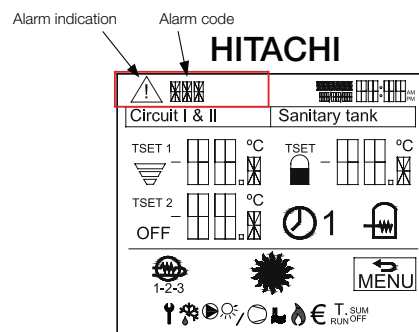


Alarm Codes

Alarm Codes for Domestic Heating Yutaki-S

Alarm Code Indication on Remote Control Switch:



Code No.	Origin	Type of Abnormality	Main cause
02	Outdoor	Activation of Outdoor Unit Protection Device (Except for Alarm Codes 41, 42)	High-pressure interrupting device activated
03	Outdoor	Transmission Error	Outdoor fuse meltdown, Indoor/outdoor connection wiring (breaking, wiring error, etc.)
04	Outdoor	Inverter Transmission Abnormality	Control PCB – Inverter PCB connection wiring (breaking, wiring error, etc.)
05	Outdoor	Power Phase Detect on Abnormality	Power source wiring open phase in Indoor units
06	Outdoor	Undervoltage, Overvoltage	Outdoor PCB abnormality, inverter PCB abnormality, DM, CB abnormality
07	Outdoor	Abnormal Decrease of Discharge Gas Superheat Degree	Excessive refrigerant, expansion valve open-locked, Fan motor locked
08	Outdoor	Compressor-Top Temperature Over-Increase	Shortage or leakage of refrigerant, piping clogging, Fan motor locked
11	Indoor	Water Inlet Thermistor Abnormality	Loose, disconnected, broken or short-circuited connector
12	Indoor	Water Outlet Thermistor Abnormality	Loose, disconnected, broken or short-circuited connector
13	Indoor	Indoor Liquid Pipe Temperature Thermistor Abnormality	Loose, disconnected, broken or short-circuited connector
14	Indoor	Indoor Gas Pipe Temperature Thermistor Abnormality	Loose, disconnected, broken or short-circuited connector
15	Indoor	Water Outlet C2 thermistor Abnormality	Loose, disconnected, broken or short-circuited connector
16	Indoor	Water DHW Thermistor Abnormality	Loose, disconnected, broken or short-circuited connector
17	Indoor	Auxiliary Thermistor Abnormality	Loose, disconnected, broken or short-circuited connector
18	Indoor	Water Outlet Boiler Thermistor Abnormality	Loose, disconnected, broken or short-circuited connector
19	Indoor	Water Outlet HP Thermistor Abnormality	Loose, disconnected, broken or short-circuited connector
20	Outdoor	Compressor-Top Temperature Thermistor Abnormality	Loose, disconnected, broken or short-circuited connector
22	Outdoor	Outdoor Temperature Thermistor Abnormality	Loose, disconnected, broken or short-circuited connector
24	Outdoor	Outdoor Heat Exchanger Liquid Pipe Thermistor Abnormality	Loose, disconnected, broken or short-circuited connector
31	Outdoor	Indoor/Outdoor Combination Setting Error	Outdoor/Indoor Unit capacity setting error, Indoor total capacity excessively large/small
35	Outdoor	Indoor Unit Number Setting Error	Indoor units with the same number in a refrigerant piping system

For full technical details, refer to Technical Manual

Alarm Codes

Alarm Codes for Domestic Heating Yutaki-S

Continued...

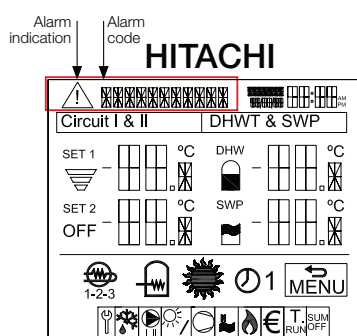
Code No.	Origin	Type of Abnormality	Main cause
38	Outdoor	Outdoor protection detection circuit abnormality	Outdoor PCB abnormality, error in wiring to outdoor PCB
41	Outdoor	Pump down overload	Outdoor heat exchanger clogging/short circuit, broken outdoor fan
42	Outdoor	Heating overload	Outdoor heat exchanger clogging/short circuit, expansion valve closed-locked
47	Outdoor	Suction pressure decrease prevention activated	Shortage or leakage of refrigerant, pipe clogging, expansion valve closed-locked, fan motor locked
48	Outdoor	Overload operation protection activation	Cycle abnormality, Inverter PCB abnormality, DM abnormality, heat exchanger clogging, etc.
51	Outdoor	Inverter current sensor abnormality	Error in CT wiring, outdoor PCB abnormality, Inverter PCB abnormality
53	Outdoor	Inverter module error	Compressor, ISPM abnormality, heat exchanger clogging, etc.
54	Outdoor	Inverter fin temperature abnormality	Fin thermistor abnormality, heat exchanger clogging, fan motor abnormality
55	Outdoor	Inverter non-operation	Inverter not operating or broken
57	Outdoor	Abnormality of fan motor protection (DC fan motor)	
59	Outdoor	Inverter fin temperature thermistor abnormality	Loose, disconnected, broken or short-circuited connector
63	Communication	Transmission error between central and indoor communication	Indoor fuse meltdown, indoor/central connection wiring (breaking, wiring error, etc.)
EE	Outdoor	Compressor factor alarm	Alarm to notify damage to compressor occurs 3 times within 6 hours
70	1st Cycle	Hydraulic alarm	Water pressure or water flow is not detected in the hydraulic cycle
71	1st Cycle	Water pump feedback	
73	1st Cycle	Mixing over-temperature limit protection for mixed circuit	Circuit 2 supply temperature > Target temperature + offset
74	1st Cycle	Unit overheating limit protection	Water supply temperature (Two) is 5°C more than maximum water circuit temperature for 20 sec.
75	Hydraulic	Freeze protection by cold water inlet temperature detection	The inlet water temperature is lower than 2°C
76	Hydraulic	Freeze protection stop by indoor liquid refrigerant temperature thermistor	
77	1st Cycle	Opentherm communication failure	No Opentherm communication for a continuous period of 1 minute
78	1st Cycle	RF communication failure	There is no communication for 1 hour with one or two RF receivers which are bound to the RF-Bridge
79	1st Cycle - outdoor	Unit capacity setting error	No concordance between indoor and outdoor unit capacity
80	1st Cycle - LCD	LCD H-link transmission error	No H-LINK communication for a continuous period of 1 minute between Indoor and LCD User control by connection wiring (breaking, wiring error, etc.)

For full technical details, refer to Technical Manual

Alarm Codes

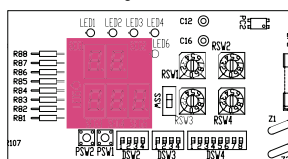
Alarm Codes for Domestic Heating Yutaki-S80

Alarm Code Indication on Remote Control Switch:



Indoor Unit

Position of the 7-segment at the indoor PCB1&3.

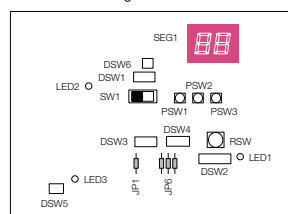


RWH-(4-6)FS(V)NFE

- The 7-segment at the indoor PCB1 will show the alarm from the outdoor unit, the hydraulic circuit and the 1st cycle
- The 7-segment at the indoor PCB3 will show the alarms from the 2nd cycle

Outdoor Unit

Position of the 7-segment at the outdoor PCB.



RAS-(4-6)H(V)RNME-AF

- The 7-segment at the outdoor PCB will show the alarms from the outdoor unit

For error codes 02 to 35, please refer to Yutaki-S codes on page 126.

Code No.	Origin	Type of Abnormality	Main cause
38	Outdoor	Outdoor Protection Detection Circuit Abnormality	Outdoor PCB abnormality, Error in wiring to outdoor PCB
41	Outdoor	Cooling Overload	Outdoor heat exchanger clogging/short circuit, Broken outdoor fan motor
42	Outdoor	Heating Overload	Outdoor heat exchanger clogging/short circuit, Expansion valve closed/locked
47	Outdoor	Suction Pressure Decrease Prevention Activated	Shortage or leakage of refrigerant, pipe clogging, Expansion valve closed/locked, Fan motor locked
48	Outdoor	Overload Operation Protection Activation	Cycle abnormality, Inverter PCB abnormality, DM abnormality, Heat exchanger clogging, etc.
51	Outdoor	Inverter Current Sensor Abnormality	Error in CT wiring, Outdoor PCB abnormality, Inverter PCB abnormality
53	Outdoor	Inverter Module Error	Compressor, ISPM abnormality, Heat exchanger clogging, etc.
54	Outdoor	Inverter Fin Temperature Abnormality	Fin thermistor abnormality, Heat exchanger clogging, Fan motor abnormality
55	Outdoor	Inverter Non-Operation	Inverter not operating or broken
56	Outdoor Fan	Fan motor abnormality	Disconnected wire of Incorrect wiring between control PCB and inverter PCB. Incorrect wiring or fan motor abnormality
59	Outdoor	Inverter Fin Temperature Thermistor Abnormality	Loose, disconnected, broken or short-circuited connector
61	Outdoor	Error in Address/Refrigerant System Setting	Address/refrigerant system setting over 64
EE	Outdoor	Compressor Factor Alarm	Alarm to notify damage to compressor occurs 3 times within 6 hours
70	Indoor	Hydraulic alarm	Water pressure or water flow is not detected in the hydraulic cycle
71	Indoor	Water Pump Feedback	
72	Indoor	Thermostat Heater Alarm	High temperature is detected in Electric Heater $T > 75^{\circ}\text{C}$
73	Indoor	Mixing overheating limit protection for Mixed circuit	Circuit 2 supply temperature $>$ Target temperature + offset
74	Indoor	Unit overheating limit protection	$T_{\text{two}} > T_{\text{max}} + 5\text{K}$

For full technical details, refer to Technical Manual

Alarm Codes

 Alarm Codes for
Domestic Heating Yutaki-S80

Continued...

Code No.	Origin	Type of Abnormality	Main cause
75	Indoor	Freeze Protection by Cold water inlet, outlet temperature detection	
76	Indoor	Freeze Protection Stop by Indoor Liquid Temperature Thermistor	Tl or Tg < -20°C for 30 seconds (Only heating mode)
77	Indoor	Opentherm Communication Failure	No Opentherm communication for a continuous period of 1 minute.
78	Indoor	RF Communication Failure	No communication for 1 hour with one or two RF receivers which are bound to the RF-Bridge.
79	Indoor-Outdoor	Unit Capacity Setting Error	No concordance between indoor and outdoor unit capacities
80	Indoor LCD	LCD H-link Transmission Error	No H-LINK communication for a continuous period of 1 minute between Indoor and LCD User control by connection wiring (breaking, wiring error, etc.)
02 ↔ H1	2nd cycle	Activation of high pressure switch	The high pressure (Pd) is higher than 3 MPa.
02 ↔ H1	2nd cycle	Activation of protection control for excessive high pressure	The high pressure (Pd) is higher than 2.78 MPa during 10 seconds.
02 ↔ L1	2nd cycle	Activation of protection control for excessive low pressure	The suction pressure (Ps) is lower than 0.15 MPa 1.5 minutes.
02 ↔ L1	2nd cycle	Activation of low pressure control	The suction pressure (Ps) is lower than 0.1 MPa during 3 seconds.
02 ↔ E1	2nd cycle	Excessively low pressure difference	The pressure ratio calculated from high pressure (Pd) and low pressure (Ps) is lower than 1.8 MPa during 3 minutes.
02 ↔ G1	2nd cycle	Excessively high discharge gas temperature	The discharge gas temperature is increased to 120°C during 10 minutes or is higher than 140°C at least 5 seconds.
21	2nd cycle	Failure of refrigerant liquid temperature thermistor	The refrigerant liquid temperature thermistor is short-circuited or cut.
22	2nd cycle	Failure of inverter box ambient temperature thermistor	The ambient temperature thermistor is short-circuited or cut.
23	2nd cycle	Failure of discharge gas temperature thermistor	The discharge gas temperature thermistor is short-circuited or cut.
24	2nd cycle	Failure of refrigerant evaporation temperature thermistor	The refrigerant evaporation temperature thermistor is short-circuited or cut.
25	2nd cycle	Failure of suction gas temperature thermistor	The suction gas temperature thermistor is short-circuited or cut.
27	2nd cycle	Failure of discharge gas pressure sensor	The high pressure sensor is short-circuited or cut.
28	2nd cycle	Failure of suction gas pressure sensor	The low pressure sensor is short-circuited or cut.
04	2nd cycle	Abnormal transmission between Inverter PCB (PCB1) and Main PCB	The communication between Main PCB (PCB1) and Inverter (DIP - IPM/ISPM) is not performed correctly during 30 seconds.
05	2nd cycle	Abnormality of Power Supply Phase	The power source of phases are reversely connected or one phase is not connected.
30	2nd cycle	Incorrect PCB Setting	Wrong settings are performed in DIP switches on PCB.
40	2nd cycle	Incorrect operation	Wrong settings are performed in DIP switch on PCB or prohibited operation is performed.
06	2nd cycle	Excessively low voltage or excessively high voltage for the inverter	The voltage between terminal "P" and "N" of ISPM is insufficient.
51	2nd cycle	Abnormal operation of the current sensor	The compressor frequency is maintained at 15 - 18 Hz after the compressor's start up, one of the absolute values of the running current at each phase U+, U-, V+ and V- is lower than 1.5 A.
52	2nd cycle	Activation of protection for inverter instantaneous over current	The compressor current is higher than the set value.
53	2nd cycle	Transistor module protection activation	The transistor module detects an abnormally 3 times in 30 minutes.
54	2nd cycle	Increase in the inverter fin temperature	The temperature of the thermistor for inverter fin exceeds 100°C.

For full technical details, refer to Technical Manual