

7-7 Error Code Definitions and Solutions: Codes [5000 - 5999]

7-7-1 Error Codes [5101, 5102, 5103, 5104]

1. Error code definition

5101

Return air temperature sensor (TH21) fault (Indoor unit)
Return air temperature sensor (TH4) fault (OA processing unit)

5102

Pipe temperature sensor (TH22) fault (Indoor unit)
Pipe temperature sensor (TH2) fault (OA processing unit)

5103

Gas-side pipe temperature sensor (TH23) fault (Indoor unit)
Gas-side pipe temperature sensor (TH3) fault (OA processing unit)

5104

Intake air temperature sensor (TH1) fault (OA processing unit)
Intake air temperature sensor (TH24) fault (All-fresh (100% outdoor air) type indoor unit)

2. Error definition and error detection method

♦If a short or an open is detected during thermostat ON, the outdoor unit turns to anti-restart mode for 3 minutes. When the error is not restored after 3 minutes (if restored, the outdoor unit runs normally), the outdoor unit makes an error stop.

Short: detectable at 90°C [194°F] or higher

Open: detectable at -40°C [-40°F] or lower

♦Sensor error at gas-side cannot be detected under the following conditions.

*During heating operation

*During cooling operation for 3 minutes after the compressor turns on.

3. Cause, check method and remedy

Cause	Check method and remedy
(1) Thermistor failure	Check the thermistor resistor.
(2) Connector contact failure	0°C [32°F]: 15 kΩ
(3) Disconnected wire or partial disconnected thermistor wire	10°C [50°F]: 9.7 kΩ
(4) Unattached thermistor or contact failure	20°C [68°F]: 6.4 kΩ
	30°C [86°F]: 4.3 kΩ
	40°C [104°F]: 3.1 kΩ
(5) Indoor board (detection circuit) failure	Check the connector contact. When no fault is found, the indoor board is a failure.