

### 4-3-4 Number Display Method (Outdoor Unit, MCU, Cable remote control, wall-mount, etc.)

#### ■ How to Display Integrated Error Code

► **Meanings of First Alphabetical Character / Number of Error Code**

| Displayed alphabet | Explanation   |   |
|--------------------|---|---|
| <i>E</i>           | When displaying Error 101~700   |   |
| <i>P</i>           | When displaying Error 701~800   |   |
| <i>C</i>           | When E206 occurs  | Displays address of subordinate within the set<br>C001 : HUB, C002: FAN, C003: INV1, C004: INV2 |
|                    | When MCU error occurs   | Displays address of MCU<br>Ex) C100: MCU address 0, C101: MCU address 1, C102: MCU address 2    |
| <i>U</i>           | When displaying outdoor unit address<br>Ex) U200: Outdoor unit 1, U201: Outdoor unit 2, U202: Outdoor unit 3, U203: Indoor unit 4 |   |
| <i>A</i>           | When displaying indoor unit address<br>Ex) A000: Indoor unit address 0, A001: Indoor unit address 1, A002: Indoor unit address 2  |   |

► **Order of Error Display**

| Classification  | Error display method  | Display Example  |
|---|---|--|
| Display method for error that occurred in indoor unit                                     | Error Number → Indoor unit address →<br>Error Number, repeat display  | E471 → A002 → E471 → A002                              |
| Display method for error that occurred in outdoor unit and other methods of error display | Error Number → Outdoor unit address →<br>Error Number, repeat display | E471 → U200 → E471 → U200<br>E206 → C001 → E206 → C002 |

## ■ Diagnosis and Adjustment (Error Code)

### ▶ Error code related indoor unit

| CODE  | Explanation  |
|-------|--|
| E-101 | Indoor unit communication error. Indoor unit can not receive any data from outdoor unit.   |
| E-102 | Communication error between indoor unit and outdoor unit. Displayed in indoor unit.  |
| E-108 | Error due to repeated address setting<br>(When 2 or more devices has same address within the network)  |
| E-109 | Communication address not confirmed other outdoor unit communication error that is not on the above list   |
| E-110 | Communication error between Hydro unit HT(Main PBA) and Control kit PBA(Detection from the Control kit)  |
| E-121 | Error on indoor temperature sensor of indoor unit (Short or Open)  |
| E-122 | Error on EVA IN sensor of indoor unit (Short or Open)  |
| E-123 | Error on EVA OUT sensor of indoor unit (Short or Open)   |
| E-128 | EVA IN temperature sensor of indoor unit is detached from EVA IN pipe  |
| E-129 | EVA OUT temperature sensor of indoor unit is detached from EVA OUT pipe  |
| E-130 | Heat exchanger in/out sensors of indoor unit are detached  |
| E-135 | RPM feedback error of indoor unit's cleaning fan   |
| E-151 | Error due to opened EEV of indoor unit (2nd detection)   |
| E-152 | Error due to closed EEV of indoor unit (2nd detection)   |
| E-153 | Error on floating switch of indoor unit (2nd detection)  |
| E-154 | RPM feedback error of indoor unit  |
| E-161 | Mixed operation mode error of indoor unit; When outdoor unit is getting ready to operate in cooling (or heating) and some of the indoor unit is trying to operate in heating (or cooling) mode |
| E-162 | EEPROM error of MICOM (Physical problem of parts/circuit)  |
| E-163 | Indoor unit's remote controller option input is Incorrect or missing.<br>Outdo or unit EEPROM data error   |
| E-180 | Simultaneous opening of cooling/heating MCU SOL V/V (1st detection)  |
| E-181 | Simultaneous opening of cooling/heating MCU SOL V/V (2nd detection)  |
| E-185 | Cross wiring error between communication and power cable of indoor unit  |
| E-186 | Connection error or problem on SPi   |
| E-190 | No temperature changes in EVA IN during pipe inspection or changes in temperature is seen in indoor unit with wrong address  |
| E-191 | No temperature changes in EVA OUT during pipe inspection or changes in temperature is seen in indoor unit with wrong address   |
| E-198 | Error due to disconnected thermal fuse of indoor unit  |
| E-201 | Communication error between indoor and outdoor units (installation number setting error, repeated indoor unit address, indoor unit communication cable error)                                  |
| E-202 | Communication error between indoor and outdoor units (Communication error on all indoor unit, outdoor unit communication cable error)  |
| E-203 | Communication error between main and sub outdoor units   |
| E-205 | Communication error on all PBA within the outdoor unit C-Box, communication cable error  |
| E-206 | E206-C001: HUB PBA communication error / E206-C002: FAN PBA communication error<br>E206-C003: INV1 PBA communication error / E206-C004: INV2 PBA communication error                           |

## ■ Diagnosis and Adjustment (Error Code)

### ▶ Error code related to the Communications / Settings / HW (cont.)

| CODE  | Explanation   |
|-------|---|
| E-211 | When single indoor unit uses 2 MCU ports that are not in series.  |
| E-212 | If the rotary switch (on the MCU) for address setting of the indoor unit has 3 or more of the same address  |
| E-213 | When total number of indoor units assigned to MCU is same as actual number of installed indoor units but there is indoor unit that is not installed even though it is assigned on MCU |
| E-214 | When number of MCU is not set correctly on the outdoor unit or when two or more MCU was installed some of them have the same address  |
| E-215 | When two different MCU's have same address value on the rotary switch   |
| E-216 | When indoor unit is not installed to a MCU port but the switch on the port is set to On.  |
| E-217 | When indoor unit is connected to a MCU port but indoor unit is assigned to a MCU and the switch on the port is set to Off   |
| E-218 | When there's at least one or more actual number of indoor unit connection compared to number of indoor units assigned to MCU  |
| E-219 | Error on temperature sensor located on MCU intercooler inlet (Short or Open)  |
| E-220 | Error on temperature sensor located on MCU intercooler outlet (Short or Open)   |
| E-221 | Error on outdoor temperature sensor of outdoor unit (Short or open)   |
| E-231 | Error on COND OUT temperature sensor of main outdoor unit (Short or Open)   |
| E-241 | COND OUT sensor is detached   |
| E-251 | Error on discharge temperature sensor of compressor 1 (Short or Open)   |
| E-257 | Error on discharge temperature sensor of compressor 2 (Short or Open)   |
| E-262 | Discharge temperature sensor of compressor 1 is detached from the sensor holder on the pipe   |
| E-263 | Discharge temperature sensor of compressor 2 is detached from the sensor holder on the pipe   |
| E-266 | Top sensor of compressor 1 is detached  |
| E-267 | Top sensor of compressor 2 is detached  |
| E-269 | Suction temperature sensor is detached from the sensor holder on the pipe   |
| E-276 | Error on top sensor of compressor 1 (Short or Open)   |
| E-277 | Error on top sensor of compressor 2 (Short or Open)   |
| E-291 | Refrigerant leakage or error on high pressure sensor (Short or Open)  |
| E-296 | Refrigerant leakage or error on low pressure sensor (Short or Open)   |
| E-308 | Error on suction temperature sensor (Short or Open)   |

## ■ Diagnosis and Adjustment (Error Code)

### ▶ Error code related to the Communications / Settings / HW (cont.)

| CODE  | Explanation  |
|-------|--|
| E-311 | Error on temperature sensor of double layer pipe/liquid pipe(sub heat exchanger) (Short or Open)           |
| E-321 | Error on EVI (ESC) IN temperature sensor (Short or Open)   |
| E-322 | Error on EVI (ESC) OUT temperature sensor (Short or Open)  |
| E-323 | Error on suction sensor 2 (Short or Open)  |
| E-346 | Error due to operation failure of Fan2   |
| E-347 | Motor wire of Fan2 is not connected  |
| E-348 | Lock error on Fan2 of outdoor unit   |
| E-353 | Error due to overheated motor of outdoor unit's Fan2   |
| E-355 | Error due to overheated IPM of Fan2  |
| E-361 | Error due to operation failure of inverter compressor 2  |
| E-364 | Error due to over-current of inverter compressor 2   |
| E-365 | V-limit error of inverter compressor 2   |
| E-366 | Error due to over voltage /low voltage of inverter PBA2  |
| E-367 | Error due to unconnected wire of compressor 2  |
| E-368 | Output current sensor error of inverter PBA2   |
| E-369 | DC voltage sensor error of inverter PBA2   |
| E-374 | Heat sink temperature sensor error of inverter PBA2  |
| E-378 | Error due to overcurrent of Fan2   |
| E-385 | Error due to input current of inverter 2   |
| E-386 | Over-voltage/low-voltage error of Fan2   |
| E-387 | Hall IC connection error of Fan2   |
| E-389 | V-limit error on Fan2 of compressor  |
| E-393 | Output current sensor error of Fan2  |
| E-396 | DC voltage sensor error of Fan2  |
| E-399 | Heat sink temperature sensor error of Fan2   |
| E-400 | Error due to overheat caused by contact failure on IPM of Inverter PBA2                                    |
| E-407 | Compressor operation stop due to high pressure protection control  |
| E-410 | Compressor operation stop due to low pressure protection control or refrigerant leakage                    |
| E-416 | Compressor operation stop due to discharge temperature protection control                                  |
| E-425 | Phase reversal or phase failure (3Ø outdoor unit wiring, R-S-T-N ), connection error on 3 phase input      |
| E-428 | Compressor operation stop due abnormal compression ratio   |
| E-438 | EVI (ESC) EEV leakage or internal leakage of intercooler or incorrect connector insertion of EVI (ESC) EEV |
| E-439 | Error due to refrigerant leakage   |
| E-440 | Heating mode restriction due to high air temperature   |
| E-441 | Cooling mode restriction due to low air temperature  |
| E-442 | Refrigerant charging restriction in heating mode when air temperature is over 15 °C                        |
| E-443 | Operation prohibited due to the pressure drop  |
| E-445 | CCH is deatched  |
| E-446 | Error due to operation failure of Fan1   |

## ■ Diagnosis and Adjustment (Error Code)

### ▶ Error code related to the Communications / Settings / HW (cont.)

| CODE  | Explanation  |
|-------|--|
| E-447 | Motor wire of Fan1 is not connected  |
| E-448 | Lock error on Fan1   |
| E-452 | Error due to ZPC detection circuit problem or power failure  |
| E-453 | Error due to overheated motor of outdoor unit's Fan1   |
| E-455 | Error due to overheated IPM of Fan1  |
| E-461 | Error due to operation failure of inverter compressor 1  |
| E-462 | Compressor stop due to full current control or error due to low current on CT2                       |
| E-464 | Error due to over-current of inverter compressor 1   |
| E-465 | V-limit error of inverter compressor 1   |
| E-466 | Error due to over voltage /low voltage of inveter PBA1   |
| E-467 | Error due to unconnected wire of compressor 1  |
| E-468 | Output current sensor error of inverter PBA1   |
| E-469 | DC voltage sensor error of inver PBA1  |
| E-474 | Heat sink temperature sensor error of inverter PBA1  |
| E-478 | Error due to overcurrent of Fan1   |
| E-485 | Error due to input current of inverter 1   |
| E-486 | Error due to over voltage/low voltage of Fan   |
| E-487 | Hall IC error of Fan1  |
| E-489 | V-limit error on Fan1 of compressor  |
| E-493 | Output current sensor error of Fan1  |
| E-496 | DC voltage sensor error of Fan1  |
| E-499 | Heat sink temperature sensor error of Fan1   |
| E-500 | Error due to overheat caused by contact failure on IPM of Inverter PBA1                              |
| E-503 | Error due to alert the user to check if the service valve is closed                                  |
| E-504 | Error due to self diagnosis of compressor operation  |
| E-505 | Error due to self diagnosis of high pressure sensor  |
| E-506 | Error due to self diagnosis of low pressure sensor   |
| E-560 | Outdoor unit's option switch setting error (when inappropriate option switch is on)                  |
| E-563 | Error due to module installation of indoor unit with old version (Micom version needs to be checked) |
| E-573 | Error due to using single type outdoor unit in a module installation                                 |
| E-601 | Communication error between remote controller and the DVM Hydro unit / Hydro unit HT                 |
| E-602 | Communication error between master and slave remote controller                                       |
| E-604 | Tracking error between remote controller and the DVM Hydro unit / Hydro unit HT                      |
| E-618 | Error due to exceeding maximum numbers of Hydro unit installation (16 units)                         |
| E-627 | Error due to exceeding maximum numbers of wired remote controller installation (2 units)             |
| E-633 | Error caused by installing mixed models  |
| E-653 | Remote controller's temperature sensor is disconnected or has problem                                |
| E-654 | Data error on remote controller (Memory read/write error)  |

■ **Diagnosis and Adjustment (Error Code)**

▶ **Error code related to the Communications / Settings / HW (cont.)**

| CODE  | Explanation  |
|-------|--|
| E-702 | Error due to closed EEV of indoor unit (1st detection)   |
| E-703 | Error due to opened EEV of indoor unit (1st detection)   |
| E-901 | Error on the sensor of water inlet pipe (Short or Open)  |
| E-902 | Error on the sensor of water outlet pipe (Short or Open)   |
| E-904 | Error on water tank (Short or open)  |
| E-907 | Error due to pipe rupture protection   |
| E-908 | Error due to freeze prevention(Re-operation is possible)   |
| E-909 | Error due to freeze prevention(Re-operation is impossible)   |
| E-910 | Water temperature sensor on water outlet pipe is detached  |
| E-911 | Flow switch off error, When the switch is turned off within 10 seconds after a pump starts its operation(Re-operation is possible)                   |
| E-913 | Six times detection for Flow Switch Error(Re-operation is not possible)  |
| E-914 | Error due to incorrect thermostat connection   |
| E-915 | Error on DC fan(Non-operating)   |
| E-917 | Water Tank Sensor Configuration Error  |
| UP    | Trial operation incompleted (UnPrepared) - It will be cleared when trial operation was executed for 1 hour or when automatic inspection is completed |