1. **MINI VRF OUTDOOR UNIT** 
   1. **Error code list**

|  |  |  |
| --- | --- | --- |
| **Error code** | **Contents** | **Remarks** |
| E1 | Outdoor unit phase sequence fault |  |
| E2 | Communication fault between indoor unit and outdoor unit | 20-minute break at first or 2-minute break later |
| E4 | T4 ambient temperature sensor fault |  |
| E6 | T3 condenser pipe temperature sensor fault (outlet) |  |
| E8 | TP(T5) exhaust temperature sensor fault |  |
| E9 | AC over-voltage / under-voltage protection |  |
| E10 | EEPROM error |  |
| EA | T3B condenser temperature sensor fault (middle) |  |
| EC | T7/TS refrigerant cooling pipe inlet temperature sensor fault |  |
| H0 | Communication fault between master chip and DSP |  |
| H4 | Display P6 for 3 times within 30 minutes | Only restore after power on again |
| H5 | Display P2 for 3 times within 30minutes | Only restore after power on again |
| H6 | Display P4 for 3 times within 100minutes | Only restore after power on again |
| H7 | The decrease in quantity of indoor units | Indoor units are lost for more than 3 minutes. It can't be restored until quantity of indoor units are restored. |
| H9 | Display P9 for 2 times within 10 minutes | Only restore after power on again |
| H10 | Display P3 for 3 times within 60minutes | Only restore after power on again |
| H11 | Display P13 protection for 2 times within 10 minutes | Only restore after power on again |
| H12 | Display Pb protection for 3 times within 60 minutes |  |
| P1 | High pressure protection |  |
| P2 | Low pressure protection | Display H5 after P2 appears 3 times within 30 minutes |
| P3 | Over-current protection |  |
| P4 | Exhaust over-heating protection |  |
| P5 | T3 or T3B condenser pipe over-heating protection |  |
| P6 | IPM protection | Display H4 after P6 appears 3 times within 30 minutes |
| P9 | DC fan motor fault | Display H9 after P9 appears 2 times within 10 minutes |
| P10 | Anti-typhoon protection |  |
| P11 | T2 high temperature protection in heating mode |  |
| P13 | Current detection error protection |  |
| Pb | Module over high temperature protection | Display H12 after Pb appears 3 times within 60 minutes |

* 1. **Spot check**

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| --- | --- |
| **No.** | **Contents** |
| 0 | Current frequency / Quantity of indoor units (when standby) |
| 1 | Capacity of outdoor unit |
| 2 | Operation mode (0: off/fan; 2: cooling; 3: heating; 4: forced cooling) |
| 3 | Total capacity demand of indoor unit |
| 4 | Actual capacity demand revised by outdoor unit |
| 5 | Actual running capacity of outdoor unit |
| 6 | Fan speed |
| 7 | T2/T2B average temperature |
| 8 | T3 condenser outlet temperature |
| 9 | T3B condenser middle temperature |
| 10 | T4 ambient temperature |
| 11 | T5/TP exhaust temperature |
| 12 | T6/T9 module temperature |
| 13 | T7/TS refrigerant cooling inlet pipe temperature |
| 14 | EXV opening degree = display value ×4 |
| 15 | AC current |
| 16 | DC current |
| 17 | AC voltage（Actual value=display value×2） |
| 18 | DC voltage（Actual value=display value×4） |
| 19 | Quantity of indoor units |
| 20 | Quantity of operating indoor units |
| 21 | Priority mode: (0: Auto; 1: heating priority; 2: cooling priority; 3: only heating; 4: only cooling; 5: First start priority; 6: VIP +auto priority) |
| 22 | Reserved |
| 23 | Reserved |
| 24 | Reserved |
| 25 | Reserved |
| 26 | Frequency limit: (0: No frequency limit; 1: T3B frequency limit; 2: T4 frequency limit; 4: T5 frequency limit; 8: Voltage frequency limit; 16: Current frequency limit; 32: T6 frequency limit; 64: Silent frequency limit (will display total if there are multiple frequency limits) |
| 27 | Last failure or protection code (No protection or fault display---) |
| 28 | Program version |
| 29 | EEPROM version |

**2. INDOOR UNIT**

**2.1 Error code list**

1. **Wired controller or digital display**

|  |  |
| --- | --- |
| **Fault** | **Code** |
| No address when first power on | FE |
| Phase sequence error or phase failure | E0 |
| Communication error between IDU and ODU | E1 |
| T1 room temperature sensor fault | E2 |
| T2 evaporator temperature sensor fault | E3 |
| T2B evaporator outlet temperature sensor fault | E4 |
| Outdoor unit fault | E5 |
| Zero-cross signal fault | E6 |
| EEPROM fault | E7 |
| PG motor/DC motor fan speed detection fault | E8 |
| Wired controller communication fault | E9 |
| Water level switch alarm | EE |
| Mode conflict fault | EF |

1. **LED board display**

|  |  |
| --- | --- |
| **Fault** | **Display** |
| No address when first power on | Timer and running light flash slowly |
| Communication error between IDU and ODU | Timer light flash quickly |
| Temperature sensor fault | Running light flash quickly |
| Water level switch alarm | Alarm light flash quickly |
| Mode conflict fault | Defrost light flash quickly |
| Outdoor unit fault | Alarm light flash slowly |
| EEPROM fault | Defrost light flash slowly |
| PG motor/DC motor fan speed detection fault | Timer light flash slowly |

Note: The slow flash period is 2 seconds; the fast flash period is 0.4 seconds.

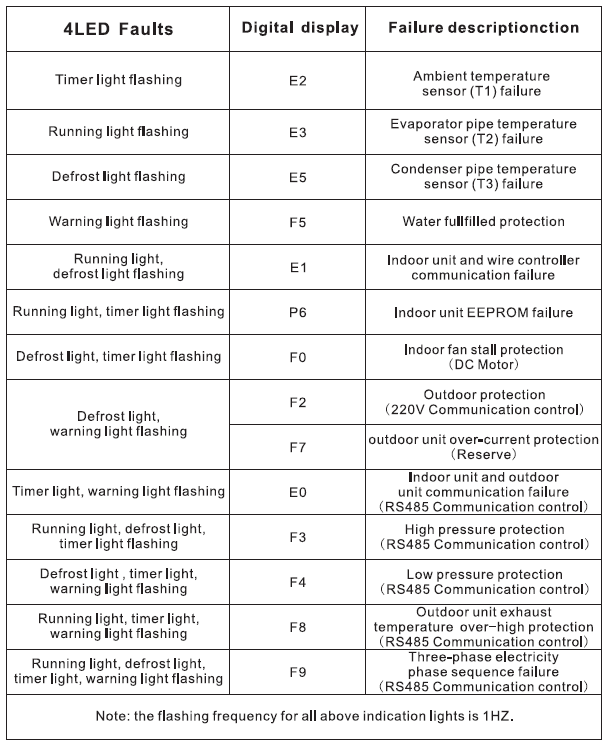
**2.2 Parameter enquiry**

From wired controller:

|  |  |
| --- | --- |
| **No.** | **Parameter** |
| 1 | IDU address |
| 2 | IDU capacity |
| 3 | IDU demand capacity |
| 4 | T1 room temperature |
| 5 | T2 evaporator temperature |
| 6 | T2B evaporator outlet temperature |
| 7 | T2 average temperature |
| 8 | EXV opening degree |
| 9 | Last fault（no fault show E-） |
| 10 | Penultimate failure（no fault show P-） |
| 11 | Humidity |

**3. LCAC ON/OFF UNIT**

**3.1 Indoor unit**



**3.2 Outdoor unit**

