

DAIKIN ELECTRONIC DEVICES MALAYSIA SDN. BHD.

TITLE: MODBUS PROTOCOL (FCBAG)

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Date: 11/7/2024

Modbus Configurations

| Dip Switch | Pin | Function | OFF | ON |
|------------|-----|-----------|------------|----------------|
| DIP_Config | 1 | Modbus | Disable | Enable |
| | 2 | Baud Rate | 9600bps | 19200bps |
| | 3 | Stop Bit | 1 (Parity) | 2 (non-Parity) |
| | 4 | Parity* | Even | Odd |
| | 5 | Reserved | Disable | Enable |

*Parity setting will enable when Stop Bit is set to OFF (Parity).

Modbus Communication Protocol

Function Code

Below is the supported function code:

| Function Code | Description | Remarks |
|---------------|--------------------------|---|
| 0x03 | Read Holding Register | - |
| 0x04 | Read Input Register | - |
| 0x06 | Preset Single Register | In case PCB does not function correctly, ensure Modbus software does not force to send command function code 0x10 in replacement of function code 0x06 on protocol setting. |
| 0x10 | Preset Multiple Register | Function code 0x10 must control more than 1 address in one single command. |

Read Input Register (0x04)

| Address | Definition |
|---------|---|
| 30001 | <div><div><div>76543210</div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div>A</div></div><div>15141312111098</div></div><div>Lower Higher</div><div>A) Modbus Status 0: Not Ready 1: Ready</div><div>B) Mainboard Version</div></div> |
| 30002 | <div><div><div>76543210</div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div>A</div></div><div>15141312111098</div></div><div>Lower Higher</div></div> |

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| | |
|-------|--|
| | A) Indoor Unit Connection Status 0: Not Connected 1: Connected |
| 30003 | <div><div>Model information 1*</div><div><div><div><div>76543210</div><div>(MSB)B(LSB)</div><div>(MSB)A(LSB)</div><div>(MSB)D(LSB)</div><div>(MSB)C(LSB)</div></div><div>15141312111098</div></div><div>Lower Higher</div></div><div>A) Mode initialization 1 0: Quiet mode (1= Valid, 0= Invalid) 1: Powerful mode (1= Valid, 0= Invalid) 2: Sense (1= Valid, 0= Invalid) 3: ECO+/ECONO (1= Valid, 0= Invalid) B) Error code indication 0x00: Daikin Error code 0x0F: OYLT Error code C) Protocol Version D) Product information 12: Brand (1= Others, 0= Daikin) 13: System (1= Non-Inverter, 0= Inverter) 14: Product (1= Others, 0=RA) 15: Algorithm (0=DAMA, 1= DIL)</div></div> |
| 30004 | <div><div>Model information 2*</div><div><div><div>76543210</div><div>(MSB)B(LSB)</div><div>(MSB)A(LSB)</div><div>(MSB)C(LSB)</div></div><div>15141312111098</div></div><div>Lower Higher</div><div>A) Indoor information *Refer to external NS model Table list B) Mode initialization 2 12: E-light (1= Valid, 0= Invalid) 13: LED off (1= Valid, 0= Invalid) 14: Streamer (1= Valid, 0= Invalid) 15: Breeze (1= Valid, 0= Invalid)</div></div> |

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C) Indoor capacity

| HP | Capacity, kW (value in hex/10) | Capacity, kW (decimal) |
|---------|-----------------------------------|---------------------------|
| unknown | 0x00 | 0 |
| 0.5 | 0x0F | 1.5 |
| 0.7 | 0x14 | 2.0 |
| 0.9/1.0 | 0x19 | 2.5 |
| 1.5 | 0x23 | 3.5 |
| 2.0 | 0x32 | 5.0 |
| 2.5 | 0x3C | 6.0 |
| 3.0 | 0x47 | 7.1 |
| 3.5 | 0x64 | 10.0 |
| 4.0 | 0x7D | 12.5 |
| 5.0 | 0x8C | 14.0 |
| 6.0 | 0xA0 | 16.0 |

30005

Model information 3*

| | | | | | | | | |
|-------|----|----|-------|-------|----|---|-------|--------|
| 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | |
| (MSB) | B | | (LSB) | (MSB) | A | | (LSB) | Lower |
| | | | D | (MSB) | C | | (LSB) | Higher |
| 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | |

A) Mode initialization 3

- 0: Power LED indication (1= Valid, 0= Invalid)
- 1: Left-Right Swing (1= Valid, 0= Invalid)
- 2: Up-Down step (1= Valid, 0= Invalid)
- 3: Left-Right step (1= Valid, 0= Invalid)

B) Mode initialization 4

- 4: Smart Powerful+ (1= Valid, 0= Invalid)
- 5: Smart Drift (1= Valid, 0= Invalid)
- 6: Smart Sleep+ (1= Valid, 0= Invalid)
- 7: Smart Ecomax (1= Valid, 0= Invalid)

C) Mode initialization 5

- 8: CK special swing (1= Valid, 0= Invalid)
- 9: Disable Up-down swing
- 10: Manual Coil Cleaning (1= Valid, 0= Invalid)
- 11: Auto Coil Cleaning (1= Valid, 0= Invalid)

D) Mode initialization 6

- 12: Percentage Fan Speed Control (1= Valid, 0= Invalid)

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| | |
|----------------------|--|
| 30006 to 31000 | Reserved |
| 31001 | <div>Indoor Unit Capability Information*</div> <div><div><div><div>7</div><div>6</div><div>5</div><div>4</div><div>3</div><div>2</div><div>1</div><div>0</div></div><div><div><div>G</div><div>F</div><div>E</div><div>D</div><div>C</div><div>B</div><div>A</div></div><div>15141312111098</div></div><div>Lower Higher</div></div><div><div>A) Bar Dry</div><div>0: No Bar</div><div>1: Bar</div><div>B) Bar Cool</div><div>0: No Bar</div><div>1: Bar</div><div>C) Bar Heat</div><div>0: No Bar</div><div>1: Bar</div><div>D) Bar Auto</div><div>0: No Bar</div><div>1: Bar</div><div>E) Bar Fan</div><div>0: No Bar</div><div>1: Bar</div><div>F) Fan Volume Level Capability</div><div>1: Single Fan speed</div><div>3: 3 level Fan Speed</div><div>5: 5 level Fan Speed</div><div>G) Fan Volume Capability</div><div>0: Not Exist</div><div>1: Exist</div></div></div> |
| 31002 | <div>Minimum and Maximum limit of Indoor Unit Cooling Set Temperature</div> <div><div><div><div>7</div><div>6</div><div>5</div><div>4</div><div>3</div><div>2</div><div>1</div><div>0</div></div><div><div><div>(MSB)</div><div>A</div><div>(LSB)</div></div><div><div>(MSB)</div><div>B</div><div>(LSB)</div></div><div>15141312111098</div></div><div>Lower Higher</div></div><div><div>A) Indoor Unit Cooling Set Temperature lower limit</div><div>B) Indoor Unit Cooling Set Temperature upper limit</div></div></div> |

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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--|----|----|----|----|---|-------|--------|--------|--|-------|---|--|--|--|--|--|-------|-------|-------|---|---|--|--|--|--|-------|--------|----|--------|----|----|----|----|----|----|---|---|--|--------|-------|------------|---|------------|---|------------|---|------------|---|------------|---|------------|---|-------|---|--------|-------|------------|---|------------|---|------------|---|------------|---|------------|---|------------|---|-------|---|
| 31003 | <p>Minimum and Maximum limit of Indoor Unit Heating Set Temperature</p> <table><tr><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td>0</td><td></td></tr><tr><td>(MSB)</td><td colspan="6">A</td><td>(LSB)</td><td>Lower</td></tr><tr><td>(MSB)</td><td colspan="6">B</td><td>(LSB)</td><td>Higher</td></tr><tr><td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td>10</td><td>9</td><td>8</td><td></td></tr></table> <p>A) Indoor Unit Heating Set Temperature lower limit B) Indoor Unit Heating Set Temperature upper limit</p> | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | | (MSB) | A | | | | | | (LSB) | Lower | (MSB) | B | | | | | | (LSB) | Higher | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (MSB) | A | | | | | | (LSB) | Lower | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (MSB) | B | | | | | | (LSB) | Higher | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31004 to 32000 | <p>Reserved</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32001 | <p>On/Off Status, Fan Direction, Fan Volume</p> <table><tr><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td>0</td><td></td></tr><tr><td></td><td colspan="4">B</td><td></td><td></td><td></td><td>A</td><td>Lower</td></tr><tr><td></td><td colspan="4">D</td><td></td><td colspan="2">C</td><td></td><td>Higher</td></tr><tr><td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td>10</td><td>9</td><td>8</td><td></td></tr></table> <p>A) On/Off Status 0: Off 1: On</p> <p>B) Left-Right Swing</p> <table><tr><td>Volume</td><td>Value</td></tr><tr><td>Swing stop</td><td>0</td></tr><tr><td>Position 0</td><td>1</td></tr><tr><td>Position 1</td><td>2</td></tr><tr><td>Position 2</td><td>3</td></tr><tr><td>Position 3</td><td>4</td></tr><tr><td>Position 4</td><td>5</td></tr><tr><td>Swing</td><td>7</td></tr></table> <p>C) Up-Down Swing</p> <table><tr><td>Volume</td><td>Value</td></tr><tr><td>Swing stop</td><td>0</td></tr><tr><td>Position 0</td><td>1</td></tr><tr><td>Position 1</td><td>2</td></tr><tr><td>Position 2</td><td>3</td></tr><tr><td>Position 3</td><td>4</td></tr><tr><td>Position 4</td><td>5</td></tr><tr><td>Swing</td><td>7</td></tr></table> | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | | | B | | | | | | | A | Lower | | D | | | | | C | | | Higher | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | | Volume | Value | Swing stop | 0 | Position 0 | 1 | Position 1 | 2 | Position 2 | 3 | Position 3 | 4 | Position 4 | 5 | Swing | 7 | Volume | Value | Swing stop | 0 | Position 0 | 1 | Position 1 | 2 | Position 2 | 3 | Position 3 | 4 | Position 4 | 5 | Swing | 7 |
| 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | B | | | | | | | A | Lower | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | D | | | | | C | | | Higher | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Volume | Value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Swing stop | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Position 0 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Position 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Position 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Position 3 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Position 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Swing | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Volume | Value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Swing stop | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Position 0 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Position 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Position 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Position 3 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Position 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Swing | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|-------------|--|---------|---------|------|---|------------|---|--------|---|-------------|------|------|---------|---------|------|---|---|---|-----|
| | <div>D) Fan Volume</div> <table><tr><td>Volume</td><td>Value</td></tr><tr><td>Low</td><td>1</td></tr><tr><td>Medium Low</td><td>2</td></tr><tr><td>Medium</td><td>3</td></tr><tr><td>Medium High</td><td>4</td></tr><tr><td>High</td><td>5</td></tr><tr><td>Auto</td><td>7</td></tr></table> | Volume | Value | Low | 1 | Medium Low | 2 | Medium | 3 | Medium High | 4 | High | 5 | Auto | 7 | | | | |
| Volume | Value | | | | | | | | | | | | | | | | | | |
| Low | 1 | | | | | | | | | | | | | | | | | | |
| Medium Low | 2 | | | | | | | | | | | | | | | | | | |
| Medium | 3 | | | | | | | | | | | | | | | | | | |
| Medium High | 4 | | | | | | | | | | | | | | | | | | |
| High | 5 | | | | | | | | | | | | | | | | | | |
| Auto | 7 | | | | | | | | | | | | | | | | | | |
| 32002 | <div>Operation Mode</div> <div><div><div>76543210</div><div>(MSB)A(LSB)</div><div>15141312111098</div></div><div>Lower Higher</div></div> <div>A) Operation Mode</div> <table><tr><td>Value</td><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr><tr><td>Mode</td><td>Fan</td><td>Heating</td><td>Cooling</td><td>Auto</td><td>-</td><td>-</td><td>-</td><td>Dry</td></tr></table> | Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Mode | Fan | Heating | Cooling | Auto | - | - | - | Dry |
| Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | | | | | | | | | |
| Mode | Fan | Heating | Cooling | Auto | - | - | - | Dry | | | | | | | | | | | |
| 32003 | <div>Indoor Unit Set Temperature</div> <div><div><div>76543210</div><div>Signed bit(MSB)A(LSB)</div><div>15141312111098</div></div><div>Lower Higher</div></div> <div>A) Set Temperature</div> <div>* Temperature value in Decimal multiplies with 10. Eg: 18°C x 10 = 180.</div> | | | | | | | | | | | | | | | | | | |
| 32004 | <div>Error Code</div> <div><div><div>76543210</div><div>(MSB)B(LSB)(MSB)A(LSB)</div><div>15141312111098</div></div><div>Lower Higher</div></div> <div>A) Error code lower mapping value (0-15)</div> <div>B) Error code upper mapping value (0-31)</div> <div>C) Malfunction</div> <div>0: Normal</div> <div>1: Malfunction</div> | | | | | | | | | | | | | | | | | | |

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**Representation of Error Code:

| Error Code type | B) Error Code higher mapping value (hex) | A) Error Code lower mapping value (hex) | Error Code |
|-----------------|--|---|----------------|
| OYLT Type | 0x00 | 0x00 - 0x0F | From E01 – E15 |
| | 0x01 - 0x0F | 0x00 - 0x0F | Invalid |
| Daikin Type | 0x00 | 0x00 - 0x0F | Invalid |
| | 0x01 | 0x00 - 0x0F | From A1 - AF |
| | 0x02 | 0x00 - 0x0F | From C1 - CF |
| | 0x03 | 0x00 - 0x0F | From E1 - EF |
| | 0x04 | 0x00 - 0x0F | From H1 - HF |
| | 0x05 | 0x00 - 0x0F | From F1 - FF |
| | 0x06 | 0x00 - 0x0F | From J1 - JF |
| | 0x07 | 0x00 - 0x0F | From L1 - LF |
| | 0x08 | 0x00 - 0x0F | From P1 - PF |
| | 0x09 | 0x00 - 0x0F | From U1 - UF |
| | 0x0A - 0x0F | 0x00 - 0x0F | Invalid |

** Please refer to the mainboard manual for the meaning of each error code.

For example:

1. For OYLT Error Code type, If the receiving value of Error Code lower mapping value (A) is 0x00 and Error Code upper mapping value (B) is 0x0B.
Error Code upper mapping value (B) need to convert to decimal and hence 0x0B in hex is similar to 11 in decimal.

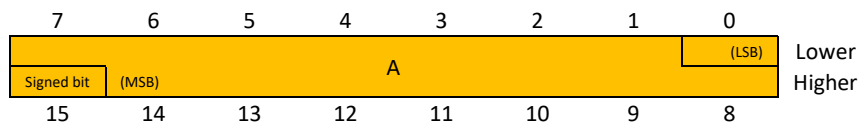
Error Code in OYLT type = A + B = "E" + "11" = **E11**

2. For Daikin Error Code type, If the receiving value of Error Code lower mapping value (A) is 0x02 and Error Code upper mapping value (B) is 0x03.
Error Code upper mapping value (A) need to refer table above and hence 0x02 is similar to character "C".

Error Code in Daikin type = A + B = "C" + "3" = **C3**

32005

Room Temperature Display



A) Room Temperature

* Temperature value in Decimal multiplies with 10. Eg: 18°C x 10 = 180.

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| | |
|----------------------|---|
| 32006 | <p>Indoor Unit Room Temperature Sensor</p> <div><div><div>76543210</div><div></div><div>15141312111098</div></div><div><div>B</div><div></div><div>A</div></div><div>Lower Higher</div></div> <p>A) Indoor unit Room temperature sensor error 0: Normal 1: Error</p> <p>B) Indoor unit Room temperature sensor data is received from 0: Indoor Unit 1: Wired panel</p> |
| 32007 to 32200 | <p>Reserved</p> |
| 32201 | <p>Indoor Coil Temperature 1</p> <div><div><div>76543210</div><div></div><div>15141312111098</div></div><div><div>Signed bit</div><div>(MSB)</div><div>A</div><div>(LSB)</div></div><div>Lower Higher</div></div> <p>A) Indoor Coil Temperature 1 <i>* Temperature value in Decimal multiplies with 10. Eg: 18°C x 10 = 180.</i></p> |
| 32002 to 32499 | <p>Reserved</p> |
| 32500 | <p>Valve Status</p> <div><div><div>76543210</div><div></div><div>15141312111098</div></div><div><div></div><div></div><div>A</div></div><div>Lower Higher</div></div> <p>A) Valve Status 0: Valve OFF 1: Valve ON</p> |

*For factory reference only

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Read Holding Register (0x03)

Preset Single and Multiple Register (0x06 and 0x10)

| Address | Definition | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|--------|-------|------------|---|------------|---|------------|---|------------|---|------------|---|------------|---|-------|---|--------|-------|------------|---|------------|---|------------|---|------------|---|------------|---|------------|---|-------|---|--------|-------|-----|---|------------|---|--------|---|-------------|---|------|---|------|---|
| 42001 | <div><div>On/Off Status, Fan Direction, Fan Volume</div><div><div><div><div><div>7</div><div>6</div><div>5</div><div>4</div><div>3</div><div>2</div><div>1</div><div>0</div></div><div><div></div><div>B</div><div></div><div></div><div></div><div></div><div>A</div></div><div><div></div><div>D</div><div></div><div>C</div></div><div><div>15</div><div>14</div><div>13</div><div>12</div><div>11</div><div>10</div><div>9</div><div>8</div></div></div><div>Lower Higher</div></div><div><div>A) On/Off Status</div><div>0: Off</div><div>1: On</div></div><div><div>B) Left-Right Swing</div><table><tr><td>Volume</td><td>Value</td></tr><tr><td>Swing stop</td><td>0</td></tr><tr><td>Position 0</td><td>1</td></tr><tr><td>Position 1</td><td>2</td></tr><tr><td>Position 2</td><td>3</td></tr><tr><td>Position 3</td><td>4</td></tr><tr><td>Position 4</td><td>5</td></tr><tr><td>Swing</td><td>7</td></tr></table></div><div><div>C) Up-Down Swing</div><table><tr><td>Volume</td><td>Value</td></tr><tr><td>Swing stop</td><td>0</td></tr><tr><td>Position 0</td><td>1</td></tr><tr><td>Position 1</td><td>2</td></tr><tr><td>Position 2</td><td>3</td></tr><tr><td>Position 3</td><td>4</td></tr><tr><td>Position 4</td><td>5</td></tr><tr><td>Swing</td><td>7</td></tr></table></div><div><div>D) Fan Volume</div><table><tr><td>Volume</td><td>Value</td></tr><tr><td>Low</td><td>1</td></tr><tr><td>Medium Low</td><td>2</td></tr><tr><td>Medium</td><td>3</td></tr><tr><td>Medium High</td><td>4</td></tr><tr><td>High</td><td>5</td></tr><tr><td>Auto</td><td>7</td></tr></table></div></div></div> | Volume | Value | Swing stop | 0 | Position 0 | 1 | Position 1 | 2 | Position 2 | 3 | Position 3 | 4 | Position 4 | 5 | Swing | 7 | Volume | Value | Swing stop | 0 | Position 0 | 1 | Position 1 | 2 | Position 2 | 3 | Position 3 | 4 | Position 4 | 5 | Swing | 7 | Volume | Value | Low | 1 | Medium Low | 2 | Medium | 3 | Medium High | 4 | High | 5 | Auto | 7 |
| Volume | Value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Swing stop | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Position 0 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Position 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Position 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Position 3 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Position 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Swing | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Volume | Value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Swing stop | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Position 0 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Position 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Position 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Position 3 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Position 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Swing | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Volume | Value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Medium Low | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Medium | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Medium High | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Auto | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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Example:

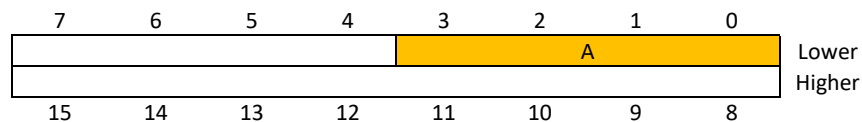
If user want to turn ON the unit, set fan direction to 0 and fan volume to 5 (high), then the format of data should transmit as below.

| Slave ID | FC | Data Address (+40001 offset) | Value Written | checksum |
|----------|----|---------------------------------|---------------|----------|
| 01 | 06 | 07D0 | 5001 | 7487 |

Transmission of Preset Single Register - 01 06 07 D0 50 01 74 87

42002

Operation Mode



A) Operation Mode

| Value | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|-------|-----|---------|---------|------|---|---|---|-----|
| Mode | Fan | Heating | Cooling | Auto | - | - | - | Dry |

Example:

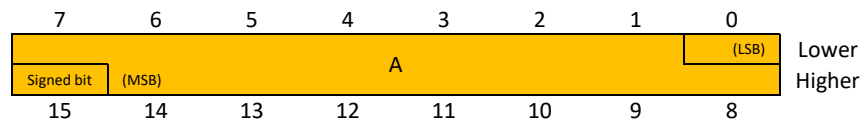
If user want to set operation mode to COOL mode, then the format of data should transmit as below.

| Slave ID | FC | Data Address (+40001 offset) | Value Written | checksum |
|----------|----|---------------------------------|---------------|----------|
| 01 | 06 | 07D1 | 0002 | 5946 |

Transmission of Preset Single Register - 01 06 07 D1 00 02 59 46

42003

Set Temperature



A) Set Temperature

* Temperature value in Decimal multiplies with 10. Eg: 18°C x 10 = 180

Example:

If user want to set temperature to 26 °C, then the format of data should transmit as below.

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| | | | | | | | | | |
|--|--------------------------------|-----------|---|----------------------|-----------------|----|---|---|--------|
| | <i>Slave ID</i> | <i>FC</i> | <i>Data Address (+40001 offset)</i> | <i>Value Written</i> | <i>checksum</i> | | | | |
| | 01 | 06 | 07D2 | 0104 | 28D4 | | | | |
| Transmission of Preset Single Register - 01 06 07 D2 01 04 28 D4 | | | | | | | | | |
| 42010 | Disable Handset control | | | | | | | | |
| | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | |
| | | | | | | | B | A | Lower |
| | | | | | | | | | Higher |
| | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | |
| | A) Disable wired handset/panel | | | | | | | | |
| | 0: OFF | | | | | | | | |
| | 1: ON | | | | | | | | |
| | B) Disable wireless handset | | | | | | | | |
| | 0: OFF | | | | | | | | |
| 1: ON | | | | | | | | | |
| 42011 | Force Valve Off | | | | | | | | |
| | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | |
| | | | | | | | A | | Lower |
| | | | | | | | | | |
| | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | |
| | A) Force Valve Off | | | | | | | | |
| | 0: Normal Operation | | | | | | | | |
| | 1: Force off | | | | | | | | |

*Preset Multiple Register

If user want to turn ON the unit, set fan direction to 0, fan volume to 5 (high), operation mode to COOL mode and set temperature to 26 °C, then the format of data should transmit as below.

| Slave ID | FC | Starting Address (+40001 offset) | No. of registers | No. of data bytes | Value to write in 42001 | Value to write in 42002 | Value to write in 42003 | checksum |
|----------|----|-------------------------------------|------------------|-------------------|-------------------------|-------------------------|-------------------------|----------|
| 01 | 10 | 07D0 | 0003 | 06 | 5001 | 0002 | 0104 | 685E |

Transmission of Preset Multiple Register - 01 10 07 D0 00 03 06 50 01 00 02 01 04 68 5E

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Revision History:

| Rev no. | Effective date | Revision description | PIC |
|---------|----------------|----------------------|--------|
| A | 11/07/2024 | Original Release | ChoyWF |