

- 0. ETS-AI08H-E Range Mode Setting** ..... 1
- 1. ComilDE Dictionary** ..... 1
  - 1. ComilDE Dictionary ..... 1
  - 2. .... 2
  - 3. Range ..... 2
- 2. SDO Write** ..... 4
  - 1. Slave ..... 4
  - 2. .... 4
  - 3. SDO Write Range Mode ..... 5

# ETS-AI08H-E Range Mode

× ETS-AI08H-E Range Mode

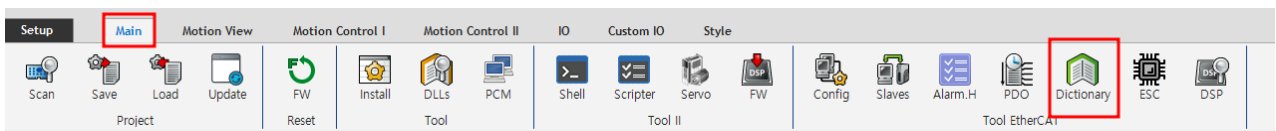
## 0. ETS-AI08H-E Range Mode Setting

▶ Analog Input Channel Setting (n = 0~7 : 채널 번호)

| Index  | Sub          | Name             | Value         | Data Type          | Flag |    |
|--------|--------------|------------------|---------------|--------------------|------|----|
| 0x80n0 | 0x00         | AI Setting Ch. n | 0x0B          | UINT8              | RO   |    |
|        | 0x01         | Enable Limit 1   | Limit 1 사용 여부 | BOOL               | RW   |    |
|        | 0x02         | Enable Limit 2   | Limit 2 사용 여부 | BOOL               | RW   |    |
|        | 0x03         | Analog Type      | 0             | Voltage Type       | BOOL | RW |
|        |              |                  | 1             | Current Type       |      |    |
|        | 0x09         | Range Mode       | 0             | -10.24 ~ 10.24 (V) | BIT5 | RW |
|        |              |                  | 1             | -5.12 ~ 5.12 (V)   |      |    |
|        |              |                  | 2             | -2.56 ~ 2.56 (V)   |      |    |
|        |              |                  | 3             | 0 ~ 10.24 (V)      |      |    |
|        |              |                  | 4             | 0 ~ 5.12 (V)       |      |    |
|        |              |                  | 5             | 4 ~ 20 (mA)        |      |    |
| 6      |              |                  | 0 ~ 20 (mA)   |                    |      |    |
| 7      |              |                  | 0 ~ 24 (mA)   |                    |      |    |
| 0x0A   | Limit1 Value | Limit 1 값        | INT32         | RW                 |      |    |
| 0x0B   | Limit2 Value | Limit 2 값        | INT32         | RW                 |      |    |

## 1. ComiIDE Dictionary

### 1. ComiIDE Dictionary



- Main - Dictionary

2.

Object Dictionary

02 : [0202] AES-CBC-AIO ✎ Update Interval 1000 Config

- EtherCAT
  - Net 0
    - 00 : [02FF] MASTER-DC
    - 01 : [0201] AES-CBC-DIO
    - 02 : [0202] AES-CBC-AIO**

| Index  | Name                | Type       | Size | Value      | Value_Hex | Flag |
|--------|---------------------|------------|------|------------|-----------|------|
| 0x1000 | Device type         | UDINT      | 4    | 791433     | 0xC1389   |      |
| 0x1008 | Device name         | STRING(10) | 10   | AES-CBC-AI |           |      |
| 0x1009 | Hardware version    | STRING(4)  | 4    | v1.0       |           |      |
| 0x100A | Software version    | STRING(8)  | 8    | v1.0.0.0   |           |      |
| 0x1018 | Identity            | DT1018     | 18   |            |           |      |
| 0x1600 | AO RxPDO-Map        | DT1600     | 50   |            |           |      |
| 0x1A00 | AI TxPDO-Map00      | DT1A00     | 38   |            |           |      |
| 0x1A01 | AI TxPDO-Map01      | DT1A00     | 38   |            |           |      |
| 0x1A02 | AI TxPDO-Map02      | DT1A00     | 38   |            |           |      |
| 0x1A03 | AI TxPDO-Map03      | DT1A00     | 38   |            |           |      |
| 0x1A04 | AI TxPDO-Map04      | DT1A00     | 38   |            |           |      |
| 0x1A05 | AI TxPDO-Map05      | DT1A00     | 38   |            |           |      |
| 0x1A06 | AI TxPDO-Map06      | DT1A00     | 38   |            |           |      |
| 0x1A07 | AI TxPDO-Map07      | DT1A00     | 38   |            |           |      |
| 0x1A08 | AI TxPDO-Map08      | DT1A00     | 38   |            |           |      |
| 0x1A09 | AI TxPDO-Map09      | DT1A00     | 38   |            |           |      |
| 0x1A0A | AI TxPDO-Map10      | DT1A00     | 38   |            |           |      |
| 0x1A0B | AI TxPDO-Map11      | DT1A00     | 38   |            |           |      |
| 0x1A20 | AI(SOL) TxPDO-Map00 | DT1A00     | 38   |            |           |      |
| 0x1A21 | AI(SOL) TxPDO-Map01 | DT1A00     | 38   |            |           |      |
| 0x1A22 | AI(SOL) TxPDO-Map02 | DT1A00     | 38   |            |           |      |
| 0x1A23 | AI(SOL) TxPDO-Map03 | DT1A00     | 38   |            |           |      |

Index Order ID Order

• ( ETS-AI08H-E )

3. Range

Object Dictionary

02 : [0202] AES-CBC-AIO ✎ Update Interval 1000 Config


- EtherCAT
  - Net 0
    - 00 : [02FF] MASTER-DC
    - 01 : [0201] AES-CBC-DIO
    - 02 : [0202] AES-CBC-AIO

| Index  | Name                         | Type     | Size | Value | Value_Hex | Flag |
|--------|------------------------------|----------|------|-------|-----------|------|
| 0x7210 | Analog(SOL) Output Channel 1 | DT7000   | 4    |       |           |      |
| 0x7220 | Analog(SOL) Output Channel 2 | DT7000   | 4    |       |           |      |
| 0x7230 | Analog(SOL) Output Channel 3 | DT7000   | 4    |       |           |      |
| 0x7240 | Analog(SOL) Output Channel 4 | DT7000   | 4    |       |           |      |
| 0x7250 | Analog(SOL) Output Channel 5 | DT7000   | 4    |       |           |      |
| 0x7260 | Analog(SOL) Output Channel 6 | DT7000   | 4    |       |           |      |
| 0x7270 | Analog(SOL) Output Channel 7 | DT7000   | 4    |       |           |      |
| 0x8000 | Analog Input Setting Ch.0    | DT8000   | 24   |       |           |      |
| 0x0    | SubIndex 000                 | USINT    | 1    | 11    | 0xB       |      |
| 0x1    | Enable Limit1                | BOOL     | 0    | 0     | 0x0       |      |
| 0x2    | Enable Limit2                | BOOL     | 0    | 0     | 0x0       |      |
| 0x9    | Range Mode                   | DT8001EN | 1    | 0     | 0x0       |      |
| 0xA    | Limit1 Value                 | DINT     | 4    | 0     | 0x0       |      |
| 0xB    | Limit2 Value                 | DINT     | 4    | 0     | 0x0       |      |
| 0x8010 | Analog Input Setting Ch.1    | DT8000   | 24   |       |           |      |
| 0x8020 | Analog Input Setting Ch.2    | DT8000   | 24   |       |           |      |
| 0x8030 | Analog Input Setting Ch.3    | DT8000   | 24   |       |           |      |
| 0x8040 | Analog Input Setting Ch.4    | DT8000   | 24   |       |           |      |
| 0x8050 | Analog Input Setting Ch.5    | DT8000   | 24   |       |           |      |
| 0x8060 | Analog Input Setting Ch.6    | DT8000   | 24   |       |           |      |
| 0x8070 | Analog Input Setting Ch.7    | DT8000   | 24   |       |           |      |
| 0x8080 | Analog Input Setting Ch.8    | DT8000   | 24   |       |           |      |

Index Order ID Order

• 0x80n0 Analog Input Channel Setting ( n )

Object Dictionary

02 : [0202] AES-CBC-AIO 

Update Interval  **Config**


EtherCAT

- Net 0
  - 00 : [02FF] MASTER-DC
  - 01 : [0201] AES-CBC-DIO
  - 02 : [0202] AES-CBC-AIO

| Index  | Name                         | Type     | Size | Value | Value_Hex | Flag |
|--------|------------------------------|----------|------|-------|-----------|------|
| 0x7210 | Analog(SOL) Output Channel 1 | DT7000   | 4    |       |           |      |
| 0x7220 | Analog(SOL) Output Channel 2 | DT7000   | 4    |       |           |      |
| 0x7230 | Analog(SOL) Output Channel 3 | DT7000   | 4    |       |           |      |
| 0x7240 | Analog(SOL) Output Channel 4 | DT7000   | 4    |       |           |      |
| 0x7250 | Analog(SOL) Output Channel 5 | DT7000   | 4    |       |           |      |
| 0x7260 | Analog(SOL) Output Channel 6 | DT7000   | 4    |       |           |      |
| 0x7270 | Analog(SOL) Output Channel 7 | DT7000   | 4    |       |           |      |
| 0x8000 | Analog Input Setting Ch.0    | DT8000   | 24   |       |           |      |
| 0x0    | SubIndex 000                 | USINT    | 1    | 11    | 0xB       |      |
| 0x1    | Enable Limit1                | BOOL     | 0    | 0     | 0x0       |      |
| 0x2    | Enable Limit2                | BOOL     | 0    | 0     | 0x0       |      |
| 0x9    | Range Mode                   | DT8001EN | 1    | 0     | 0x0       |      |
| 0xA    | Limit1 Value                 | DINT     | 4    | 0     | 0x0       |      |
| 0xB    | Limit2 Value                 | DINT     | 4    | 0     | 0x0       |      |
| 0x8010 | Analog Input Setting Ch.1    | DT8000   | 24   |       |           |      |
| 0x8020 | Analog Input Setting Ch.2    | DT8000   | 24   |       |           |      |
| 0x8030 | Analog Input Setting Ch.3    | DT8000   | 24   |       |           |      |
| 0x8040 | Analog Input Setting Ch.4    | DT8000   | 24   |       |           |      |
| 0x8050 | Analog Input Setting Ch.5    | DT8000   | 24   |       |           |      |
| 0x8060 | Analog Input Setting Ch.6    | DT8000   | 24   |       |           |      |
| 0x8070 | Analog Input Setting Ch.7    | DT8000   | 24   |       |           |      |
| 0x8080 | Analog Input Setting Ch.8    | DT8000   | 24   |       |           |      |

- Value

Object Dictionary

02 : [0202] AES-CBC-AIO 

Update Interval  **Config**


EtherCAT

- Net 0
  - 00 : [02FF] MASTER-DC
  - 01 : [0201] AES-CBC-DIO
  - 02 : [0202] AES-CBC-AIO

| Index  | Name                         | Type     | Size | Value | Value_Hex | Flag |
|--------|------------------------------|----------|------|-------|-----------|------|
| 0x7210 | Analog(SOL) Output Channel 1 | DT7000   | 4    |       |           |      |
| 0x7220 | Analog(SOL) Output Channel 2 | DT7000   | 4    |       |           |      |
| 0x7230 | Analog(SOL) Output Channel 3 | DT7000   | 4    |       |           |      |
| 0x7240 | Analog(SOL) Output Channel 4 | DT7000   | 4    |       |           |      |
| 0x7250 | Analog(SOL) Output Channel 5 | DT7000   | 4    |       |           |      |
| 0x7260 | Analog(SOL) Output Channel 6 | DT7000   | 4    |       |           |      |
| 0x7270 | Analog(SOL) Output Channel 7 | DT7000   | 4    |       |           |      |
| 0x8000 | Analog Input Setting Ch.0    | DT8000   | 24   |       |           |      |
| 0x0    | SubIndex 000                 | USINT    | 1    | 11    | 0xB       |      |
| 0x1    | Enable Limit1                | BOOL     | 0    | 0     | 0x0       |      |
| 0x2    | Enable Limit2                | BOOL     | 0    | 0     | 0x0       |      |
| 0x9    | Range Mode                   | DT8001EN | 1    | 6     | 0x0       |      |
| 0xA    | Limit1 Value                 | DINT     | 4    | 0     | 0x0       |      |
| 0xB    | Limit2 Value                 | DINT     | 4    | 0     | 0x0       |      |
| 0x8010 | Analog Input Setting Ch.1    | DT8000   | 24   |       |           |      |
| 0x8020 | Analog Input Setting Ch.2    | DT8000   | 24   |       |           |      |
| 0x8030 | Analog Input Setting Ch.3    | DT8000   | 24   |       |           |      |
| 0x8040 | Analog Input Setting Ch.4    | DT8000   | 24   |       |           |      |
| 0x8050 | Analog Input Setting Ch.5    | DT8000   | 24   |       |           |      |
| 0x8060 | Analog Input Setting Ch.6    | DT8000   | 24   |       |           |      |
| 0x8070 | Analog Input Setting Ch.7    | DT8000   | 24   |       |           |      |
| 0x8080 | Analog Input Setting Ch.8    | DT8000   | 24   |       |           |      |

- Enter

Object Dictionary

02 : [0202] AES-CBC-AIO 

Update Interval  **Config**

EtherCAT

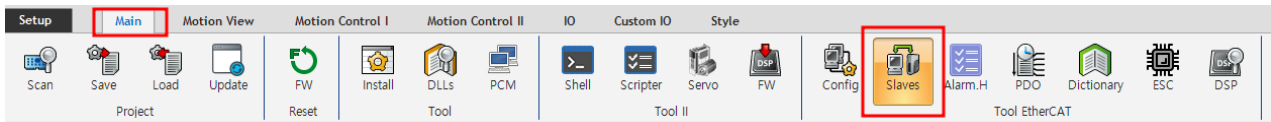
- Net 0
  - 00 : [02FF] MASTER-DC
  - 01 : [0201] AES-CBC-DIO
  - 02 : [0202] AES-CBC-AIO

| Index  | Name                         | Type     | Size | Value | Value_Hex | Flag |
|--------|------------------------------|----------|------|-------|-----------|------|
| 0x7210 | Analog(SOL) Output Channel 1 | DT7000   | 4    |       |           |      |
| 0x7220 | Analog(SOL) Output Channel 2 | DT7000   | 4    |       |           |      |
| 0x7230 | Analog(SOL) Output Channel 3 | DT7000   | 4    |       |           |      |
| 0x7240 | Analog(SOL) Output Channel 4 | DT7000   | 4    |       |           |      |
| 0x7250 | Analog(SOL) Output Channel 5 | DT7000   | 4    |       |           |      |
| 0x7260 | Analog(SOL) Output Channel 6 | DT7000   | 4    |       |           |      |
| 0x7270 | Analog(SOL) Output Channel 7 | DT7000   | 4    |       |           |      |
| 0x8000 | Analog Input Setting Ch.0    | DT8000   | 24   |       |           |      |
| 0x0    | SubIndex 000                 | USINT    | 1    | 11    | 0xB       |      |
| 0x1    | Enable Limit1                | BOOL     | 0    | 0     | 0x0       |      |
| 0x2    | Enable Limit2                | BOOL     | 0    | 0     | 0x0       |      |
| 0x9    | Range Mode                   | DT8001EN | 1    | 6     | 0x6       |      |
| 0xA    | Limit1 Value                 | DINT     | 4    | 0     | 0x0       |      |
| 0xB    | Limit2 Value                 | DINT     | 4    | 0     | 0x0       |      |
| 0x8010 | Analog Input Setting Ch.1    | DT8000   | 24   |       |           |      |
| 0x8020 | Analog Input Setting Ch.2    | DT8000   | 24   |       |           |      |
| 0x8030 | Analog Input Setting Ch.3    | DT8000   | 24   |       |           |      |
| 0x8040 | Analog Input Setting Ch.4    | DT8000   | 24   |       |           |      |
| 0x8050 | Analog Input Setting Ch.5    | DT8000   | 24   |       |           |      |
| 0x8060 | Analog Input Setting Ch.6    | DT8000   | 24   |       |           |      |
| 0x8070 | Analog Input Setting Ch.7    | DT8000   | 24   |       |           |      |
| 0x8080 | Analog Input Setting Ch.8    | DT8000   | 24   |       |           |      |

- Range mode

## 2. SDO Write

### 1. Slave



The screenshot shows a software interface with a top menu bar containing 'Setup', 'Main', 'Motion View', 'Motion Control I', 'Motion Control II', 'IO', 'Custom IO', and 'Style'. The 'Main' tab is highlighted with a red box. Below the menu is a toolbar with various icons. The 'Slaves' icon, which depicts two server racks, is highlighted with a red box. Other icons include 'Scan', 'Save', 'Load', 'Update', 'FW', 'Install', 'DLLs', 'PCM', 'Shell', 'Scripter', 'Servo', 'FW', 'Config', 'Alarm.H', 'PDO', 'Dictionary', 'ESC', and 'DSP'.

- Main - Slave

### 2.

Slave RW

02 : [0202] AES-CBC-AIO

- EtherCAT
  - Net 0
    - 00 : [02FF] MASTER-DC
    - 01 : [0201] AES-CBC-DIO
    - 02 : [0202] AES-CBC-AIO

EEPROM CoE SDO Register Update

Address

Size

Value

Decimal 0

RenewCRC Read Write

Index Order ID Order

- 

### 3. SDO Write Range Mode

Slave RW

02 : [0202] AES-CBC-AIO

- EtherCAT
  - Net 0
    - 00 : [02FF] MASTER-DC
    - 01 : [0201] AES-CBC-DIO
    - 02 : [0202] AES-CBC-AIO

EEPROM CoE SDO Register Update

Index

Sub Index

Size

Value

Decimal 0

Read Write

Index Order ID Order

- CoE SDO

Slave RW

02 : [0202] AES-CBC-AIO

EtherCAT  
Net 0  
00 : [02FF] MASTER-DC  
01 : [0201] AES-CBC-DIO  
02 : [0202] AES-CBC-AIO

EEPROM CoE SDO Register Update

|           |        |
|-----------|--------|
| Index     | 0x8000 |
| Sub Index | 9      |
| Size      | 1      |
| Value     | 6      |
| Decimal   | 6      |

Read Write

- Index 0x80n0 (n )
- SubIndex 9 (Range Mode)
- Size 1 (1byte)
- Value RangeMode
- Write

Slave RW

02 : [0202] AES-CBC-AIO

EtherCAT  
Net 0  
00 : [02FF] MASTER-DC  
01 : [0201] AES-CBC-DIO  
02 : [0202] AES-CBC-AIO

EEPROM CoE SDO Register Update

|           |        |
|-----------|--------|
| Index     | 0x8000 |
| Sub Index | 9      |
| Size      | 1      |
| Value     | 0x6    |
| Decimal   | 6      |

Read Write

- Read

From:

<http://comizoa.co.kr/info/> - -

Permanent link:

[http://comizoa.co.kr/info/doku.php?id=tempmanuals:00\\_ets\\_ai08\\_rangemode\\_change](http://comizoa.co.kr/info/doku.php?id=tempmanuals:00_ets_ai08_rangemode_change)

Last update: **2024/07/08 18:23**