

## EDAM-9000 I/O Modbus Mapping Table

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## Chapter 1 MODBUS/TCP Command structure

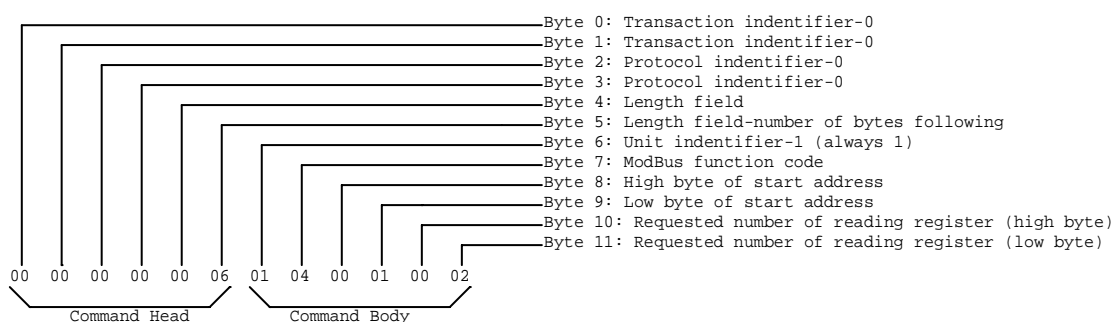
EDAM-9000 system accepts a command/response form with the host computer. When systems are not transmitting they are in listen mode. The host issues a command to a system with a specified address and waits a certain amount of time for the system to respond. If no response arrives, a time-out aborts the sequence and returns control to the host. This chapter explains the structure of the commands with Modbus/TCP protocol, and guides to use these command sets to implement user's programs.

### 1.1 Command Structure

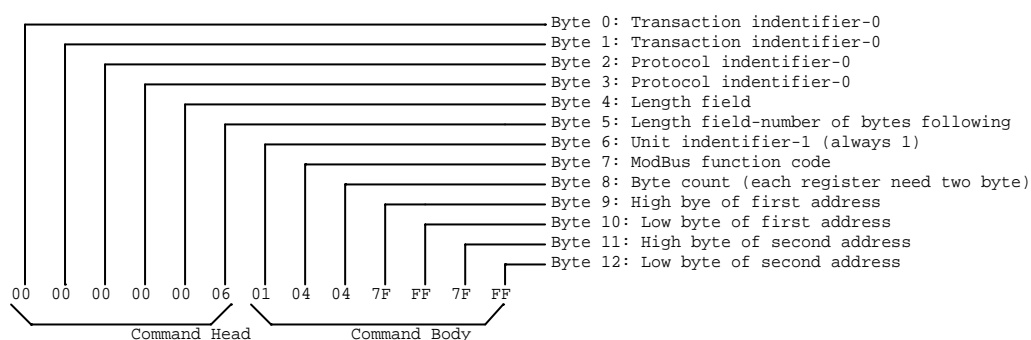
It is important to understand the encapsulation of a Modbus request or response carried on the Modbus/TCP network. A complete command is consisted of command head and command body. The command head is prefixed by six bytes and responded to pack Modbus format; the command body defines target device and requested action. Following example will help you to realize this structure quickly.

**Example:**

If you want to read the first two values of EADM-9017 (address: 40001~40002), the request command should be:



And the response should be:



## **1.2 ModBus Function code introductions**

| <b>Code (Hex)</b> | <b>Name</b>               | <b>Usage</b>   |
|-------------------|---------------------------|--|
| 01                | Read Coil Status          | Read Discrete Output Bit   |
| 02                | Read Input Status         | Read Discrete Input Bit  |
| 03                | Read Holding Registers    | Read 16-bit register. Used to read integer or floating point process data. |
| 04                | Read Input Registers      |  |
| 05                | Force Single Coil         | Write data to force coil ON/OFF  |
| 06                | Preset Single Register    | Write data in 16-bit integer format  |
| 0F                | Force Multiple Coils      | Write multiple data to force coil ON/OFF                                   |
| 10                | Preset Multiple Registers | Write multiple data in 16-bit integer format                               |

## Chapter 2 EDAM-9050 12 Digital Input/6 Digital Output Module

### 2.1 Holding Register Address (Unit:16bits)

Where X=40000 for function 03, function 06, function 16

X=30000 for function 04

| Address       | Channel                                     | Item                 |
|---------------|---|----------------------|
| X+0001~X+0024 | For Counter                                 | 12 Channels, 32 Bits |
| X+0025~X+0036 | For Pulse Output L level, time Unit:0.1ms   | 6 Channels, 32 Bits  |
| X+0037~X+0048 | For Pulse Output H level, time Unit:0.1ms   | 6 Channels, 32 Bits  |
| X+0049~X+0060 | Set Absolute pulse (Set to 0=Continue mode) | 6 Channels, 32 Bits  |
| X+0061~X+0073 | Set DO pulse value                          | Channels, 32 Bit     |

### 2.2 Bit Address (Unit:1Bit)

Where X=00000 for function 01, function 05

X=10000 for function 02

| Address       | Channel                | Item                                   |
|---------------|------------------------|--|
| X+0001~X+0012 | For DI                 | 12 Channels, 1 Bit                     |
| X+0013~X+0018 | For DO                 | 6 Channels, 1 Bit                      |
| X+0032        | Ch0 (For Counter Mode) | Start(1)/Stop(0)                       |
| X+0033        | Ch0 (For Counter Mode) | Clear Counter(1)                       |
| X+0034        | Ch0 (For Counter Mode) | Clear Overflow                         |
| X+0035        | Ch0 (For Counter Mode) | Latch Status(read)/Clear Status(Write) |
| X+0036        | Ch1 (For Counter Mode) | Start(1)/Stop(0)                       |
| X+0037        | Ch1 (For Counter Mode) | Clear Counter(1)                       |
| X+0038        | Ch1 (For Counter Mode) | Clear Overflow                         |
| X+0040        | Ch1 (For Counter Mode) | Latch Status(read)/Clear Status(Write) |
| X+0041        | Ch2 (For Counter Mode) | Start(1)/Stop(0)                       |
| X+0042        | Ch2 (For Counter Mode) | Clear Counter(1)                       |
| X+0043        | Ch2 (For Counter Mode) | Clear Overflow                         |
| X+0044        | Ch2 (For Counter Mode) | Latch Status(read)/Clear Status(Write) |
| X+0045        | Ch3 (For Counter Mode) | Start(1)/Stop(0)                       |
| X+0046        | Ch3 (For Counter Mode) | Clear Counter(1)                       |
| X+0047        | Ch3 (For Counter Mode) | Clear Overflow                         |
| X+0048        | Ch3 (For Counter Mode) | Latch Status(read)/Clear Status(Write) |
| X+0049        | Ch4 (For Counter Mode) | Start(1)/Stop(0)                       |
| X+0050        | Ch4 (For Counter Mode) | Clear Counter(1)                       |
| X+0051        | Ch4 (For Counter Mode) | Clear Overflow                         |
| X+0052        | Ch4 (For Counter Mode) | Latch Status(read)/Clear Status(Write) |
| X+0053        | Ch5 (For Counter Mode) | Start(1)/Stop(0)                       |
| X+0054        | Ch5 (For Counter Mode) | Clear Counter(1)                       |
| X+0055        | Ch5 (For Counter Mode) | Clear Overflow                         |
| X+0056        | Ch5 (For Counter Mode) | Latch Status(read)/Clear Status(Write) |
| X+0057        | Ch6 (For Counter Mode) | Start(1)/Stop(0)                       |
| X+0058        | Ch6 (For Counter Mode) | Clear Counter(1)                       |
| X+0059        | Ch6 (For Counter Mode) | Clear Overflow                         |
| X+0060        | Ch6 (For Counter Mode) | Latch Status(read)/Clear Status(Write) |

### EDAM-9000 ModBus Address Mapping

|        |                         |  |
|--------|-------------------------|--|
| X+0061 | Ch7 (For Counter Mode)  | Start(1)/Stop(0)                       |
| X+0062 | Ch7 (For Counter Mode)  | Clear Counter(1)                       |
| X+0063 | Ch7 (For Counter Mode)  | Clear Overflow                         |
| X+0064 | Ch7 (For Counter Mode)  | Latch Status(read)/Clear Status(Write) |
| X+0065 | Ch8 (For Counter Mode)  | Start(1)/Stop(0)                       |
| X+0066 | Ch8 (For Counter Mode)  | Clear Counter(1)                       |
| X+0067 | Ch8 (For Counter Mode)  | Clear Overflow                         |
| X+0068 | Ch8 (For Counter Mode)  | Latch Status(read)/Clear Status(Write) |
| X+0069 | Ch9 (For Counter Mode)  | Start(1)/Stop(0)                       |
| X+0070 | Ch9 (For Counter Mode)  | Clear Counter(1)                       |
| X+0071 | Ch9 (For Counter Mode)  | Clear Overflow                         |
| X+0072 | Ch9 (For Counter Mode)  | Latch Status(read)/Clear Status(Write) |
| X+0073 | Ch10 (For Counter Mode) | Start(1)/Stop(0)                       |
| X+0074 | Ch10 (For Counter Mode) | Clear Counter(1)                       |
| X+0075 | Ch10 (For Counter Mode) | Clear Overflow                         |
| X+0076 | Ch10 (For Counter Mode) | Latch Status(read)/Clear Status(Write) |
| X+0077 | Ch11 (For Counter Mode) | Start(1)/Stop(0)                       |
| X+0078 | Ch11 (For Counter Mode) | Clear Counter(1)                       |
| X+0079 | Ch11 (For Counter Mode) | Clear Overflow                         |
| X+0080 | Ch11 (For Counter Mode) | Latch Status(read)/Clear Status(Write) |

## **Chapter 3 EDAM-9051 12 Digital Input/2 Counter/2 Output Module**

### **3.1 Register Address (Unit:16bits)**

Where X=40000 for function 03, function 06, function 16

X=30000 for function 04

| <b>Address</b> | <b>Channel</b>                             | <b>Item</b>          |
|----------------|--|----------------------|
| X+0001~X+0028  | For Counter                                | 14 Channels, 32 Bits |
| X+0029~X+0032  | For Pulse Output L level, time Unit:0.1ms  | 2 Channels, 32 Bits  |
| X+0033~X+0036  | For Pulse Output H level, time Unit:0.1ms  | 2 Channels, 32 Bits  |
| X+0037~X+0040  | Set Absolute pulse(Set to 0=Continue mode) | 2 Channels, 32 Bits  |
| X+0041~X+0044  | Set DO pulse value                         | 2 Channels, 32 Bits  |

### **3.2 bit Address (Unit:1Bit)**

Where X=00000 for function 01, function 05

X=10000 for function 02

| <b>Address</b> | <b>Channel</b>            | <b>Item</b>                            |
|----------------|---------------------------|--|
| X+0001~X+0014  | For DI 14 Channels, 1 Bit |  |
| X+0017~X+0018  | For DO 2 Channels, 1 Bit  |  |
| X+0033         | Ch0 (For Counter Mode)    | Start(1)/Stop(0)                       |
| X+0034         | Ch0 (For Counter Mode)    | Clear Counter(1)                       |
| X+0035         | Ch0 (For Counter Mode)    | Clear Overflow                         |
| X+0036         | Ch0 (For Counter Mode)    | Latch Status(read)/Clear Status(Write) |
| X+0037         | Ch1 (For Counter Mode)    | Start(1)/Stop(0)                       |
| X+0038         | Ch1 (For Counter Mode)    | Clear Counter(1)                       |
| X+0039         | Ch1 (For Counter Mode)    | Clear Overflow                         |
| X+0040         | Ch1 (For Counter Mode)    | Latch Status(read)/Clear Status(Write) |
| X+0041         | Ch2 (For Counter Mode)    | Start(1)/Stop(0)                       |
| X+0042         | Ch2 (For Counter Mode)    | Clear Counter(1)                       |
| X+0043         | Ch2 (For Counter Mode)    | Clear Overflow                         |
| X+0044         | Ch2 (For Counter Mode)    | Latch Status(read)/Clear Status(Write) |
| X+0045         | Ch3 (For Counter Mode)    | Start(1)/Stop(0)                       |
| X+0046         | Ch3 (For Counter Mode)    | Clear Counter(1)                       |
| X+0047         | Ch3 (For Counter Mode)    | Clear Overflow                         |
| X+0048         | Ch3 (For Counter Mode)    | Latch Status(read)/Clear Status(Write) |
| X+0049         | Ch4 (For Counter Mode)    | Start(1)/Stop(0)                       |
| X+0050         | Ch4 (For Counter Mode)    | Clear Counter(1)                       |
| X+0051         | Ch4 (For Counter Mode)    | Clear Overflow                         |
| X+0052         | Ch4 (For Counter Mode)    | Latch Status(read)/Clear Status(Write) |
| X+0053         | Ch5 (For Counter Mode)    | Start(1)/Stop(0)                       |
| X+0054         | Ch5 (For Counter Mode)    | Clear Counter(1)                       |
| X+0055         | Ch5 (For Counter Mode)    | Clear Overflow                         |
| X+0056         | Ch5 (For Counter Mode)    | Latch Status(read)/Clear Status(Write) |
| X+0057         | Ch6 (For Counter Mode)    | Start(1)/Stop(0)                       |
| X+0058         | Ch6 (For Counter Mode)    | Clear Counter(1)                       |
| X+0059         | Ch6 (For Counter Mode)    | Clear Overflow                         |
| X+0060         | Ch6 (For Counter Mode)    | Latch Status(read)/Clear Status(Write) |

### EDAM-9000 ModBus Address Mapping

|        |                         |  |
|--------|-------------------------|--|
| X+0061 | Ch7 (For Counter Mode)  | Start(1)/Stop(0)                       |
| X+0062 | Ch7 (For Counter Mode)  | Clear Counter(1)                       |
| X+0063 | Ch7 (For Counter Mode)  | Clear Overflow                         |
| X+0064 | Ch7 (For Counter Mode)  | Latch Status(read)/Clear Status(Write) |
| X+0065 | Ch8 (For Counter Mode)  | Start(1)/Stop(0)                       |
| X+0066 | Ch8 (For Counter Mode)  | Clear Counter(1)                       |
| X+0067 | Ch8 (For Counter Mode)  | Clear Overflow                         |
| X+0068 | Ch8 (For Counter Mode)  | Latch Status(read)/Clear Status(Write) |
| X+0069 | Ch9 (For Counter Mode)  | Start(1)/Stop(0)                       |
| X+0070 | Ch9 (For Counter Mode)  | Clear Counter(1)                       |
| X+0071 | Ch9 (For Counter Mode)  | Clear Overflow                         |
| X+0072 | Ch9 (For Counter Mode)  | Latch Status(read)/Clear Status(Write) |
| X+0073 | Ch10 (For Counter Mode) | Start(1)/Stop(0)                       |
| X+0074 | Ch10 (For Counter Mode) | Clear Counter(1)                       |
| X+0075 | Ch10 (For Counter Mode) | Clear Overflow                         |
| X+0076 | Ch10 (For Counter Mode) | Latch Status(read)/Clear Status(Write) |
| X+0077 | Ch11 (For Counter Mode) | Start(1)/Stop(0)                       |
| X+0078 | Ch11 (For Counter Mode) | Clear Counter(1)                       |
| X+0079 | Ch11 (For Counter Mode) | Clear Overflow                         |
| X+0080 | Ch11 (For Counter Mode) | Latch Status(read)/Clear Status(Write) |
| X+0081 | Ch12 (For Counter Mode) | Start(1)/Stop(0)                       |
| X+0082 | Ch12 (For Counter Mode) | Clear Counter(1)                       |
| X+0083 | Ch12 (For Counter Mode) | Clear Overflow                         |
| X+0084 | Ch12 (For Counter Mode) | Latch Status(read)/Clear Status(Write) |
| X+0085 | Ch13 (For Counter Mode) | Start(1)/Stop(0)                       |
| X+0086 | Ch13 (For Counter Mode) | Clear Counter(1)                       |
| X+0087 | Ch13 (For Counter Mode) | Clear Overflow                         |
| X+0088 | Ch13 (For Counter Mode) | Latch Status(read)/Clear Status(Writ   |

## Chapter 4 EDAM-9052 8 channel digital Input /digital out Module

### 4.1 Register Address (Unit: 16bits)

Where X=40000 for function 03, function 06, function 16

X=30000 for function 04

| Address       | Channel                                     | Item                | Type |
|---------------|---|---------------------|------|
| X+0001~X+0016 | For DI Counter (32 bits/channel)            | 8 Channels, 32 Bits | R    |
| X+0017~X+0032 | For Pulse Output L level, time Unit:0.1ms   | 8 Channels, 32 Bits | R/W  |
| X+0033~X+0048 | For Pulse Output H level, time Unit:0.1ms   | 8 Channels, 32 Bits | R/W  |
| X+0049~X+0064 | Set DO pulse value (Set to 0=Continue mode) | 8 Channels, 32 Bits | R/W  |
| X+0065        | Digital input status                        | 8 channel,16 Bits   | R    |
| X+0066        | Digital output status                       | 8 channel,16 Bits   | R/W  |



## EDAM-9000 ModBus Address Mapping

### 4.2 Bit Address (Unit: 1Bit)

Where X=00000 for function 01, function 05

X=10000 for function 02

| Address       | Channel                          | Item                                   | Type |
|---------------|----------------------------------|--|------|
| X+0001~X+0008 | For DI 8 Channels, 1 Bit/channel |  | R    |
| X+0017~X+0024 | For DO 8 Channels, 1 Bit/channel |  | R/W  |
| X+0033        | Ch0 (For Counter Mode)           | Start(1)/Stop(0)                       | R/W  |
| X+0034        | Ch0 (For Counter Mode)           | Clear Counter(1)                       | R/W  |
| X+0035        | Ch0 (For Counter Mode)           | Clear Overflow                         | R/W  |
| X+0036        | Ch0 (For Counter Mode)           | Latch Status(read)/Clear Status(Write) | R/W  |
| X+0037        | Ch1 (For Counter Mode)           | Start(1)/Stop(0)                       | R/W  |
| X+0038        | Ch1 (For Counter Mode)           | Clear Counter(1)                       | R/W  |
| X+0039        | Ch1 (For Counter Mode)           | Clear Overflow                         | R/W  |
| X+0040        | Ch1 (For Counter Mode)           | Latch Status(read)/Clear Status(Write) | R/W  |
| X+0041        | Ch2 (For Counter Mode)           | Start(1)/Stop(0)                       | R/W  |
| X+0042        | Ch2 (For Counter Mode)           | Clear Counter(1)                       | R/W  |
| X+0043        | Ch2 (For Counter Mode)           | Clear Overflow                         | R/W  |
| X+0044        | Ch2 (For Counter Mode)           | Latch Status(read)/Clear Status(Write) | R/W  |
| X+0045        | Ch3 (For Counter Mode)           | Start(1)/Stop(0)                       | R/W  |
| X+0046        | Ch3 (For Counter Mode)           | Clear Counter(1)                       | R/W  |
| X+0047        | Ch3 (For Counter Mode)           | Clear Overflow                         | R/W  |
| X+0048        | Ch3 (For Counter Mode)           | Latch Status(read)/Clear Status(Write) | R/W  |
| X+0049        | Ch4 (For Counter Mode)           | Start(1)/Stop(0)                       | R/W  |
| X+0050        | Ch4 (For Counter Mode)           | Clear Counter(1)                       | R/W  |
| X+0051        | Ch4 (For Counter Mode)           | Clear Overflow                         | R/W  |
| X+0052        | Ch4 (For Counter Mode)           | Latch Status(read)/Clear Status(Write) | R/W  |
| X+0053        | Ch5 (For Counter Mode)           | Start(1)/Stop(0)                       | R/W  |
| X+0054        | Ch5 (For Counter Mode)           | Clear Counter(1)                       | R/W  |
| X+0055        | Ch5 (For Counter Mode)           | Clear Overflow                         | R/W  |
| X+0056        | Ch5 (For Counter Mode)           | Latch Status(read)/Clear Status(Write) | R/W  |
| X+0057        | Ch6 (For Counter Mode)           | Start(1)/Stop(0)                       | R/W  |
| X+0058        | Ch6 (For Counter Mode)           | Clear Counter(1)                       | R/W  |
| X+0059        | Ch6 (For Counter Mode)           | Clear Overflow                         | R/W  |
| X+0060        | Ch6 (For Counter Mode)           | Latch Status(read)/Clear Status(Write) | R/W  |
| X+0061        | Ch7 (For Counter Mode)           | Start(1)/Stop(0)                       | R/W  |
| X+0062        | Ch7 (For Counter Mode)           | Clear Counter(1)                       | R/W  |
| X+0063        | Ch7 (For Counter Mode)           | Clear Overflow                         | R/W  |
| X+0064        | Ch7 (For Counter Mode)           | Latch Status(read)/Clear Status(Write) | R/W  |

## Chapter 5 EDAM-9015 7-Channel RTD Input Module

### 5.1 Register Address (unit:16 bits)

Where X=40000 for function 03, function 06, function 16

X=30000 for function 04

| Address       | Channel | Item            | Attribute |
|---------------|---------|-----------------|-----------|
| X+0001        | 0       | Current value   | R         |
| X+0002        | 1       | Current value   | R         |
| X+0003        | 2       | Current value   | R         |
| X+0004        | 3       | Current value   | R         |
| X+0005        | 4       | Current value   | R         |
| X+0006        | 5       | Current value   | R         |
| X+0007        | 6       | Current value   | R         |
| X+0008        |         | Reserved        | R         |
| X+0009        | 8       | Average ch0~ch6 | R         |
| X+0010        | -       | Reserved        | R         |
| X+0011        | 0       | Max value       | R         |
| X+0012        | 1       | Max value       | R         |
| X+0013        | 2       | Max value       | R         |
| X+0014        | 3       | Max value       | R         |
| X+0015        | 4       | Max value       | R         |
| X+0016        | 5       | Max value       | R         |
| X+0017        | 6       | Max value       | R         |
| X+0018        |         | Reserved        |           |
| X+0019~X+0020 |         | Reserved        |           |
| X+0021        | 0       | Min value       | R         |
| X+0022        | 1       | Min value       | R         |
| X+0023        | 2       | Min value       | R         |
| X+0024        | 3       | Min value       | R         |
| X+0025        | 4       | Min value       | R         |
| X+0026        | 5       | Min value       | R         |
| X+0027        | 6       | Min value       | R         |
| X+0028~X+0030 |         | Reserved        |           |

## EDAM-9000 ModBus Address Mapping

### 5.2 Bit Address (unit:1 bit)

Where X=00000 for function 01, function 05

X=10000 for function 02

| Address       | Channel | Item             | Attribute |
|---------------|---------|------------------|-----------|
| X+0101        | 0       | Reset Max. value | R/W       |
| X+0102        | 1       | Reset Max. value | R/W       |
| X+0103        | 2       | Reset Max. value | R/W       |
| X+0104        | 3       | Reset Max. value | R/W       |
| X+0105        | 4       | Reset Max. value | R/W       |
| X+0106        | 5       | Reset Max. value | R/W       |
| X+0107        | 6       | Reset Max. value | R/W       |
| X+0108~X+0110 |         | Reserved         |           |
| X+0111        | 0       | Reset Min. value | R/W       |
| X+0112        | 1       | Reset Min. value | R/W       |
| X+0113        | 2       | Reset Min. value | R/W       |
| X+0114        | 3       | Reset Min. value | R/W       |
| X+0115        | 4       | Reset Min. value | R/W       |
| X+0116        | 5       | Reset Min. value | R/W       |
| X+0117        | 6       | Reset Min. value | R/W       |
| X+0118~X+0120 | --      | Reserved         |           |
| X+0121        | 0       | Burnout flag     | R         |
| X+0122        | 1       | Burnout flag     | R         |
| X+0123        | 2       | Burnout flag     | R         |
| X+0124        | 3       | Burnout flag     | R         |
| X+0125        | 4       | Burnout flag     | R         |
| X+0126        | 5       | Burnout flag     | R         |
| X+0127        | 6       | Burnout flag     | R         |
| X+0128~X+0130 | --      | Reserved         |           |
| X+0131        | 0       | High alarm flag  | R         |
| X+0132        | 1       | High alarm flag  | R         |
| X+0133        | 2       | High alarm flag  | R         |
| X+0134        | 3       | High alarm flag  | R         |
| X+0135        | 4       | High alarm flag  | R         |
| X+0136        | 5       | High alarm flag  | R         |
| X+0137        | 6       | High alarm flag  | R         |
| X+0138~X+0140 | --      | Reserved         |           |
| X+0141        | 0       | Low alarm flag   | R         |
| X+0142        | 1       | Low alarm flag   | R         |
| X+0143        | 2       | Low alarm flag   | R         |
| X+0144        | 3       | Low alarm flag   | R         |
| X+0145        | 4       | Low alarm flag   | R         |
| X+0146        | 5       | Low alarm flag   | R         |
| X+0147        | 6       | Low alarm flag   | R         |

**Chapter 6 EDAM-9017 8-Channel Voltage/Current Input Module****6.1 Register Address(unit:16 bits)**

Where X=40000 for function 03, function 06, function 16

X=30000 for function 04

| Address           | Channel | Item            | Attribute |
|-------------------|---------|-----------------|-----------|
| X+0001            | 0       | Current value   | R         |
| X+0002            | 1       | Current value   | R         |
| X+0003            | 2       | Current value   | R         |
| X+0004            | 3       | Current value   | R         |
| X+0005            | 4       | Current value   | R         |
| X+0006            | 5       | Current value   | R         |
| X+0007            | 6       | Current value   | R         |
| X+0008            | 7       | Current Value   | R         |
| X+0009            | 8       | Average ch0~ch7 | R         |
| X+0010            | -       | Reserved        | R         |
| X+0011            | 0       | Max value       | R         |
| X+0012            | 1       | Max value       | R         |
| X+0013            | 2       | Max value       | R         |
| X+0014            | 3       | Max value       | R         |
| X+0015            | 4       | Max value       | R         |
| X+0016            | 5       | Max value       | R         |
| X+0017            | 6       | Max value       | R         |
| X+0018            | 7       | Max value       | R         |
| X+0019~X+0020     |         | Reserved        |           |
| X+0021            | 0       | Min value       | R         |
| X+0022            | 1       | Min value       | R         |
| X+0023            | 2       | Min value       | R         |
| X+0024            | 3       | Min value       | R         |
| X+0025            | 4       | Min value       | R         |
| X+0026            | 5       | Min value       | R         |
| X+0027            | 6       | Min value       | R         |
| X+0028            | 7       | Min value       | R         |
| X+0029<br>~X+0030 |         | Reserved        |           |

## EDAM-9000 ModBus Address Mapping

### 6.2 Bit Address (unit:1 bit)

Where X=00000 for function 01, function 05

X=10000 for function 02

| Address       | Channel | Item             | Attribute |
|---------------|---------|------------------|-----------|
| X+0017        | 0       | DO value         | R/W       |
| X+0018        | 1       | DO value         | R/W       |
| X+0101        | 0       | Reset Max. value | R/W       |
| X+0102        | 1       | Reset Max. value | R/W       |
| X+0103        | 2       | Reset Max. value | R/W       |
| X+0104        | 3       | Reset Max. value | R/W       |
| X+0105        | 4       | Reset Max. value | R/W       |
| X+0106        | 5       | Reset Max. value | R/W       |
| X+0107        | 6       | Reset Max. value | R/W       |
| X+0108        | 7       | Reset Max. value | R/W       |
| X+0109~X+0110 | 8       | Reserved         |           |
| X+0111        | 0       | Reset Min. value | R/W       |
| X+0112        | 1       | Reset Min. value | R/W       |
| X+0113        | 2       | Reset Min. value | R/W       |
| X+0114        | 3       | Reset Min. value | R/W       |
| X+0115        | 4       | Reset Min. value | R/W       |
| X+0116        | 5       | Reset Min. value | R/W       |
| X+0117        | 6       | Reset Min. value | R/W       |
| X+0118        | 7       | Reset Min. value | R/W       |
| X+0119~X+0130 | --      | Reserved         |           |
| X+0131        | 0       | High alarm flag  | R         |
| X+0132        | 1       | High alarm flag  | R         |
| X+0133        | 2       | High alarm flag  | R         |
| X+0134        | 3       | High alarm flag  | R         |
| X+0135        | 4       | High alarm flag  | R         |
| X+0136        | 5       | High alarm flag  | R         |
| X+0137        | 6       | High alarm flag  | R         |
| X+0138        | 7       | High alarm flag  | R         |
| X+0139~X+0140 | --      | Reserved         |           |
| X+0141        | 0       | Low alarm flag   | R         |
| X+0142        | 1       | Low alarm flag   | R         |
| X+0143        | 2       | Low alarm flag   | R         |
| X+0144        | 3       | Low alarm flag   | R         |
| X+0145        | 4       | Low alarm flag   | R         |
| X+0146        | 5       | Low alarm flag   | R         |
| X+0147        | 6       | Low alarm flag   | R         |
| X+0148        | 7       | Low alarm flag   | R         |

## Chapter 7 EDAM-9019 8-Channel T/C Input Module

### 7.1 Register Address (unit:16 bits)

Where X=40000 for function 03, function 06, function 16

X=30000 for function 04

| Address       | Channel | Item            | Attribute |
|---------------|---------|-----------------|-----------|
| X+0001        | 0       | Current value   | R         |
| X+0002        | 1       | Current value   | R         |
| X+0003        | 2       | Current value   | R         |
| X+0004        | 3       | Current value   | R         |
| X+0005        | 4       | Current value   | R         |
| X+0006        | 5       | Current value   | R         |
| X+0007        | 6       | Current value   | R         |
| X+0008        |         | Current value   | R         |
| X+0009        | 8       | Average ch0~ch7 | R         |
| X+0010        | -       | Reserved        | R         |
| X+0011        | 0       | Max value       | R         |
| X+0012        | 1       | Max value       | R         |
| X+0013        | 2       | Max value       | R         |
| X+0014        | 3       | Max value       | R         |
| X+0015        | 4       | Max value       | R         |
| X+0016        | 5       | Max value       | R         |
| X+0017        | 6       | Max value       | R         |
| X+0018        | 7       | Max value       |           |
| X+0019~X+0020 |         | Reserved        |           |
| X+0021        | 0       | Min value       | R         |
| X+0022        | 1       | Min value       | R         |
| X+0023        | 2       | Min value       | R         |
| X+0024        | 3       | Min value       | R         |
| X+0025        | 4       | Min value       | R         |
| X+0026        | 5       | Min value       | R         |
| X+0027        | 6       | Min value       | R         |
| X+0028~X+0030 |         | Reserved        |           |

## EDAM-9000 ModBus Address Mapping

### 7.2 Bit Address (unit:1 bit)

Where X=00000 for function 01, function 05

X=10000 for function 02

| Address       | Channel | Item             | Attribute |
|---------------|---------|------------------|-----------|
| X+0017        | 0       | DO value         | R/W       |
| X+0018        | 1       | DO value         | R/W       |
| X+0101        | 0       | Reset Max. value | R/W       |
| X+0102        | 1       | Reset Max. value | R/W       |
| X+0103        | 2       | Reset Max. value | R/W       |
| X+0104        | 3       | Reset Max. value | R/W       |
| X+0105        | 4       | Reset Max. value | R/W       |
| X+0106        | 5       | Reset Max. value | R/W       |
| X+0107        | 6       | Reset Max. value | R/W       |
| X+0108        | 7       | Reset Max. value | R/W       |
| X+0109~X+0110 |         | Reserved         |           |
| X+0111        | 0       | Reset Min. value | R/W       |
| X+0112        | 1       | Reset Min. value | R/W       |
| X+0113        | 2       | Reset Min. value | R/W       |
| X+0114        | 3       | Reset Min. value | R/W       |
| X+0115        | 4       | Reset Min. value | R/W       |
| X+0116        | 5       | Reset Min. value | R/W       |
| X+0117        | 6       | Reset Min. value | R/W       |
| X+0118        | 7       | Reset Min. value | R/W       |
| X+0119~X+0120 | --      | Reserved         |           |
| X+0121        | 0       | Burnout flag     | R         |
| X+0122        | 1       | Burnout flag     | R         |
| X+0123        | 2       | Burnout flag     | R         |
| X+0124        | 3       | Burnout flag     | R         |
| X+0125        | 4       | Burnout flag     | R         |
| X+0126        | 5       | Burnout flag     | R         |
| X+0127        | 6       | Burnout flag     | R         |
| X+0128        | 7       | Burnout flag     | R         |
| X+0129~X+0130 | --      | Reserved         |           |
| X+0131        | 0       | High alarm flag  | R         |
| X+0132        | 1       | High alarm flag  | R         |
| X+0133        | 2       | High alarm flag  | R         |
| X+0134        | 3       | High alarm flag  | R         |
| X+0135        | 4       | High alarm flag  | R         |
| X+0136        | 5       | High alarm flag  | R         |
| X+0137        | 6       | High alarm flag  | R         |
| X+0138        | 7       | High alarm flag  | R         |
| X+0139~X+0140 | --      | Reserved         |           |
| X+0141        | 0       | Low alarm flag   | R         |
| X+0142        | 1       | Low alarm flag   | R         |
| X+0143        | 2       | Low alarm flag   | R         |
| X+0144        | 3       | Low alarm flag   | R         |
| X+0145        | 4       | Low alarm flag   | R         |
| X+0146        | 5       | Low alarm flag   | R         |

### EDAM-9000 ModBus Address Mapping

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|        |   |                |   |
|--------|---|----------------|---|
| X+0147 | 6 | Low alarm flag | R |
| X+0148 | 7 | Low alarm flag | R |