

EDAM-9000 I/O Modbus Mapping Table

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Chapter 1 MODBUS/TCP Command structure

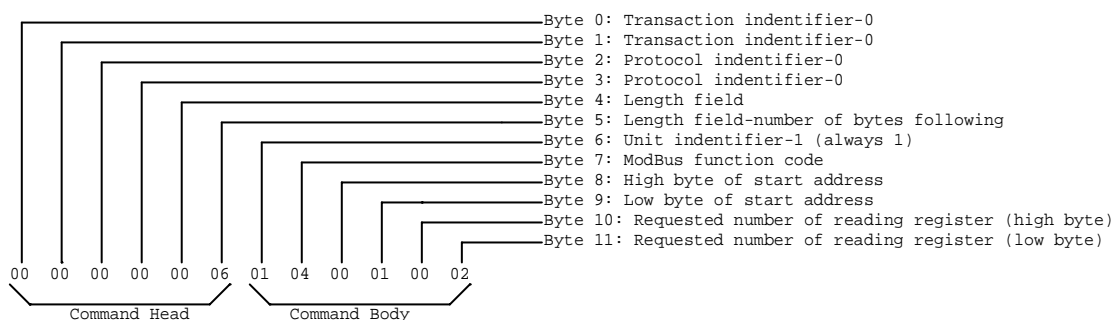
EDAM-9000 system accepts a command/response form with the host computer. When systems are not transmitting they are in listen mode. The host issues a command to a system with a specified address and waits a certain amount of time for the system to respond. If no response arrives, a time-out aborts the 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

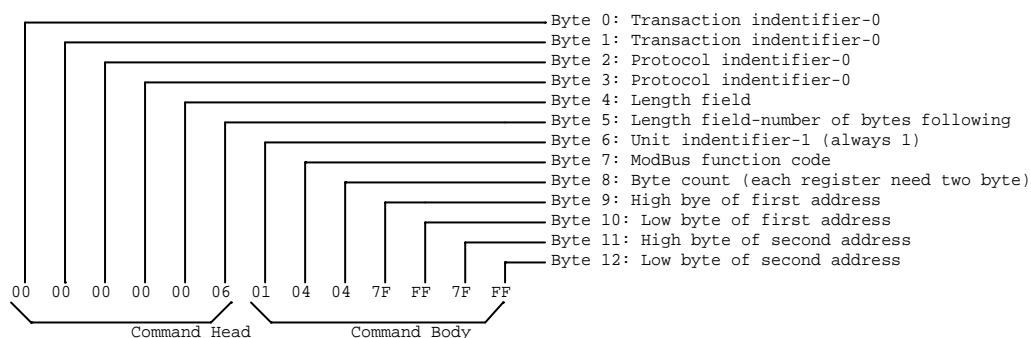
It is important to understand the encapsulation of a Modbus request or response carried on the Modbus/TCP network. A complete command is consisted of command head and command body. The command head is prefixed by six bytes and responded to pack Modbus format; the command body defines target device and 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

| Code (Hex) | Name | Usage |
|-------------------|---------------------------|--|
| 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

| Address | Channel | Item |
|----------------|--|----------------------|
| 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

| Address | Channel | Item |
|----------------|---------------------------|--|
| 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 ~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

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