



SIEMENS 0BA0 Programmable Relay User Guide

August 21,
2025

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0BA0 Programmable Relay

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Product Information

Specifications:

- Supported Series: Siemens LOGO! 0BA0, 0BA1, 0BA2, 0BA7, 0BA8
 - Website: [Siemens LOGO! Series Website](#)
-

Product Usage Instructions

HMI Setting:

Parameters:

- PLC type: Siemens LOGO (Ethernet)
- PLC I/F Port no.: 102
- PLC sta. no.: 1

Recommended Options:

- Model: 0BA7
- Local TSAP: 1000 (Must be greater than 1000)
- Remote TSAP: 2100 (Range: 2000~2700)

Notes:

*Note1: OBA2 model selects allow s7 access service and can also use OBA0/OBA1 model for communication.

PLC Setting:

Siemens LOGO! multi-connection setting requires LOGO! Soft Comfort software to set the PLC to identify the connected devices.

1. **Step 1:** Tools -> Ethernet Connections

2. **Step 2:** Right-click on Ethernet Connections
and click Add connections to add a connection, up to eight connections are allowed.
3. **Step 3:** Setting Server
 1. Double click on Connection1, then select Server Connection.
 2. Local TSAP is system default and can't be modified. Tick Accept all connection requests to connect to any IP.
 3. Remote TSAP set to 10.00.
 4. Connection 2-8 can all be set as above.
4. **Step 4:** Complete settings, download connection to Siemens LOGO!

Device Address:

Bit/Word Device type Format Range Memo

*Address Mapping tables are available in the manual for detailed reference.

Frequently Asked Questions (FAQ)

Q: What software is required for multi-connection setting on Siemens LOGO?

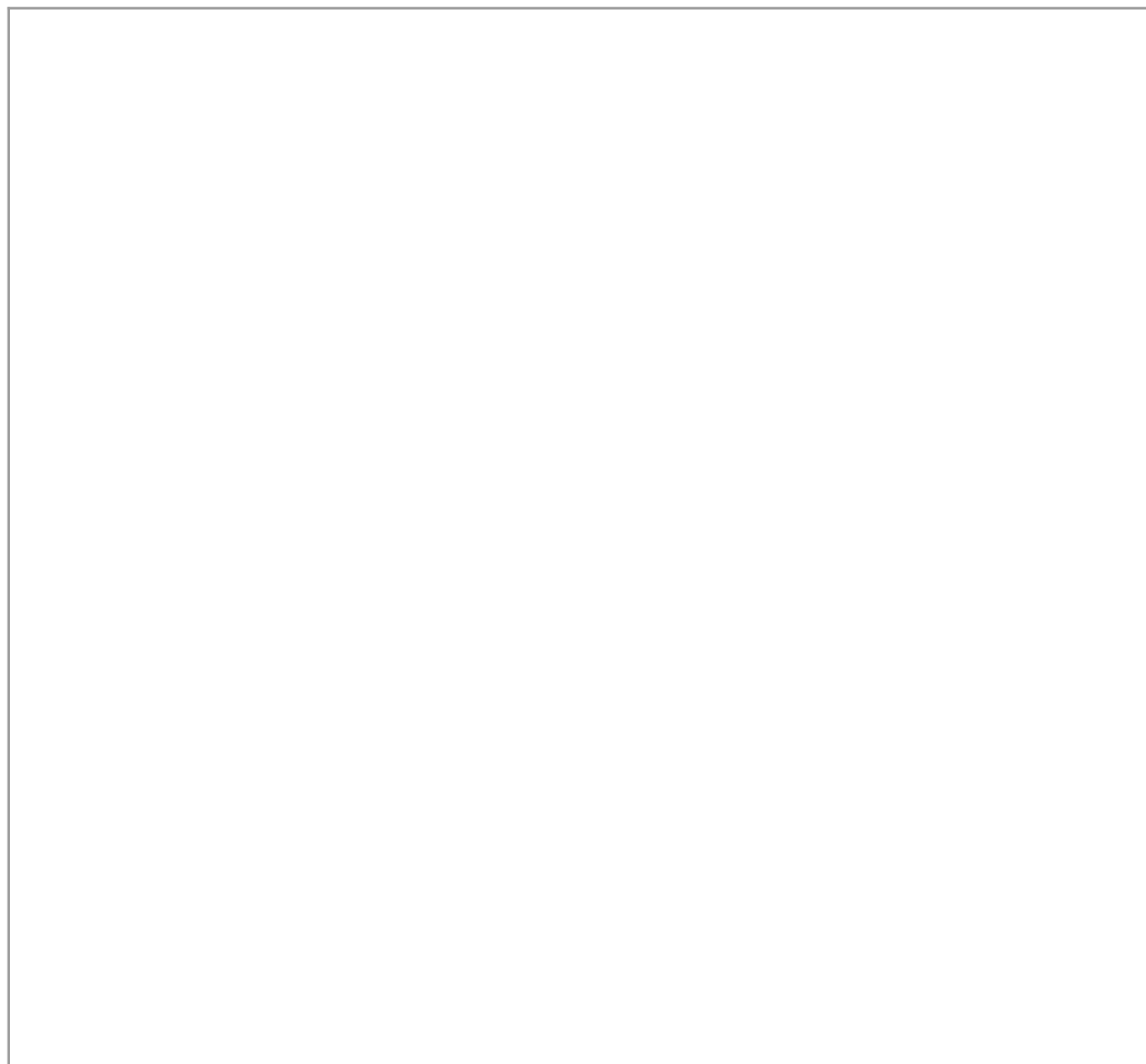
A: LOGO! Soft Comfort software is required for multi-connection setting on Siemens LOGO.

Q: What range is allowed for Remote TSAP setting?

A: The range allowed for Remote TSAP setting is 2000~2700.

“

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PLC Connection Guide

Siemens LOGO (Ethernet)

Supported Series: Siemens LOGO! 0BA0, 0BA1, 0BA2, 0BA7, 0BA8 Website:

<http://www.siemens.com/entry/cc/en/>

HMI Setting:

Parameters PLC type PLC I/F Port no. PLC sta. no.

Recommended Options

Siemens LOGO (Ethernet)

Ethernet

102

1

1~99

Notes

Model

0BA7

0BA7, 0BA8 0BA0 / 0BA1

0BA2 model *Note1

Local TSAP 1000

Must be greater than 1000

Remote TSAP 2100

Range:2000~2700

For TSAP settings please refer to PLC Setting below.

*Note1: 0BA2 model selects allow s7 access service and can also use 0BA0/0BA1

model for communication.

PLC Setting:

PLC Connection Guide

Siemens LOGO! multi connection setting requires LOGO! Soft Comfort software to set PLC to identify the connected devices. The following introduces LOGO! Soft Comfort settings.

Step 1. Tools -> Ethernet Connections

PLC Connection Guide

Step 2. Right click on "Ethernet Connections" and click "Add connections" to add a connection, up to eight connections are allowed.

Step 3. Setting Server I. Double click on Connection1, then select "Server Connection". II. Local TSAP is system default and can't be modified. Tick "Accept all connection requests" to connect to any IP. III. Remote TSAP set to "10.00". IV. Connection 2~8 can all be set as above.

PLC Connection Guide

Note: The value of Local TSAP and Remote TSAP must be set oppositely in EasyBuilder for communication.

Step 4. Complete settings, download connection to Siemens LOGO!

Device Address:

Bit/Word B B B B B B W W W W

Device type I Q M NI NQ V AI AQ AM NAI

Format DD DD DD DDD DDD DDDDo D D DD DD

Range 1~64 1~64 1~112 1~128 1~128 0~14697 1~16 1~16 1~64 1~64

Memo

Read Only

VW_Bit

Bit/Word W W DW Byte W

Device type NAQ VW VD VB RTC

Format DD DDDD DDDD DDDD D

Range 1~32 0~1468 0~1466 0~1466 1~7

PLC Connection Guide

Memo

See Table 1&2 Address Mapping

Table 1 Address Mapping (LOGO! 0BA7)

I VW

Q VW

M VW

AI VW

AQ VW

AM VW

I1 V923.0 Q1 V942.0 M1 V948.0 AI1 VW926 AQ1 VW944 AM1 VW952

I2 V923.1 Q2 V942.1 M2 V948.1 AI2 VW928 AQ2 VW946 AM2 VW954

I3 V923.2 Q3 V942.2 M3 V948.2 AI3 VW930

AM3 VW956

I4 V923.3 Q4 V942.3 M4 V948.3 AI4 VW932

AM4 VW958

I5 V923.4 Q5 V942.4 M5 V948.4 AI5 VW934

AM5 VW960

I6 V923.5 Q6 V942.5 M6 V948.5 AI6 VW936

AM6 VW962

I7 V923.6 Q7 V942.6 M7 V948.6 AI7 VW938

AM7 VW964

I8 V923.7 Q8 V942.7 M8 V948.7 AI8 VW940

AM8 VW966

I9 V924.0 I10 V924.1 I11 V924.2 I12 V924.3 I13 V924.4 I14 V924.5 I15 V924.6 I16
V924.7

Q9 V943.0 Q10 V943.1 Q11 V943.2 Q12 V943.3 Q13 V943.4 Q14 V943.5 Q15 V943.6
Q16 V943.7

M9 V949.0 M10 V949.1 M11 V949.2 M12 V949.3 M13 V949.4 M14 V949.5 M15 V949.6
M16 V949.7

AM9 VW968 AM10 VW970 AM11 VW972 AM12 VW974 AM13 VW976 AM14 VW978
AM15 VW980 AM16 VW982

I17 V925.0 I18 V925.1 I19 V925.2 I20 V925.3 I21 V925.4 I22 V925.5 I23 V925.6 I24
V925.7

M17 V950.0 M18 V950.1 M19 V950.2 M20 V950.3 M21 V950.4 M22 V950.5 M23
V950.6 M24 V950.7

M25 V951.0 M26 V951.1 M27 V951.2

Device Type I AI Q AQ M AM NI NAI NQ NAQ

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Table 2 Address Mapping (LOGO! 0BA0,OBA8)

VM (From)

VM (To)

Range

1024

1031

8 Bytes

1032

1063

32 Bytes

1064

1071

8 Bytes

1072

1103

32 Bytes

1104

1117

14 Bytes

1118

1245

128 Bytes

1246

1261

16 Bytes

1262

1389

128 Bytes

1390

1405

16 Bytes

1406

1469

64 Bytes

Wiring Diagram:

Ethernet cable:

Documents / Resources



[SIEMENS 0BA0 Programmable Relay \[pdf\]](#) User Guide

0BA0, 0BA1, 0BA2, 0BA7, 0BA8, 0BA0 Programmable Relay, 0BA0, Programmable Relay, Relay

References

- [User Manual](#)

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