39. Data Security

This chapter explains how to setup Data Security.

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39.1. Overview

Data Security allows setting restrictions on the write operations that modify local Word or Bit register data. To do so, open [System Parameter Settings] » [Device] tab, select [Local HMI] and then click [Security...] button.

| Existingen 1 | Memory | Printer/ | Backup Serve | er e | -Mail | Recipes |
|--------------------------|--|----------------------------------|---------------------------|--|-----------------|-----------|
| Device | Model | General | l Sys | stem Setting | Security | Font |
| evice list : | | | | | | |
| No. | Name | 9 | Location | Device type | Interfac | ce I. |
| Local HM | ll Local | НМІ | Local | eMT3070 (8 | - 00 | - |
| | | | | | | |
| | | | | | | |
| ٠ [| | ш | | | | ۶. |
| New | Dele | te | Security | | | |
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| and in a k d a second at | | | | | | |
| roject descript | 10n : | | | | | |
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| 4 | | | | | | r F |
| « CADA softwa | re can indirectly | v access PLC d and enable [Mi | ata via MOD) ODBUS TCP | BUS TCP/IP Ser /IP Gatewayl) | ver on HMI. (Ac | + Hd a |
| « CADA softwa | | v access PLC d and enable [M4 | ata via MOD) ODBUS TCP | BUS TCP/IP Ser /IP Gateway]) | ver on HMI. (Ad | + id a |
| « CADA softwa | re can indirectly | v access PLC d and enable [M | ODBUS TCP | /IP Gateway]) | | td a |
| « CADA softwa | re can indirectly /IP Server first a | vaccess PLC d and enable [M | ODBUS TCP | BUS TCP/IP Ser /IP Gateway]) ss Mapping Tabl | | + Hdda |
| « CADA softwa | re can indirectly | r access FLC d and enable [Mr | ODBUS TCP | /IP Gateway]) | | + Hida |
| « CADA softwa | re can indirectly /IP Server first a | v access PLC d and enable [M | ODBUS TCP | /IP Gateway]) | | tid a |
| « CADA softwa | re can indirectly /IP Server first a | and enable [M | ODBUS TCP | /IP Gateway]) | | t dd a |
| « CADA softwa | ure can indirectly MP Server first a PLC | and enable [M | ODBUS TCP | /IP Gateway]) | | t dd a |

39.2. Configuration

The following is the settings dialog box:



Data Security

| HMI | O PLC | |
|--|---------------------------------------|--|
| Location : Local | ← Settings | |
| W protection | | |
| V Prohibit remote-write ope | ration of remote HMI or MODBUS client | |
| LW range : 0 | ~ 0 | |
| RW protection | | |
| | ration of remote HMI or MODBUS client | |
| 📝 Prohibit remote-write ope | | |
| Prohibit remote-write oper RW range : 0 | ~ 0 | |

| Setting | Description |
|---|---|
| LW protection \ Prohibit remote-write operation of remote HMI or MODBUS client | If selected, a remote HMI or MODBUS client will not be able to write to the specified LW addresses. |
| RW protection \ Prohibit remote-write operation of remote HMI or MODBUS client | If selected, a remote HMI or MODBUS client will not be able to write to the specified RW addresses. |

Click [Data Security] button to set the restrictions on the write operations that modify local Word or Bit register data.

39.2.1. Word address settings

Set the restrictions relevant to local Word addresses.



| | LW-0 | | |
|----------------|-------------------------|---------------------------|-----------------|
| Address Mode : | Word 🗸 | 1 | |
| PLC name : | Local HMI | | Setting |
| Address : | LW | • 0 | 16-bit Unsigned |
| Min. value : | 0 | Max. value : 1 | 0 |
| 🔽 Disable re | emote-write operation | | |
| 🔲 Used only | y in remote-write opera | ation | |
| | value when write value | e is less than min. value | |
| iv ose min. | | | |
| | value when write value | e is more than max. valu | 3 |
| | value when write value | e is more than max. valu | 3 |
| Vse max. | value when write valu | | 2 |
| Use max. | Set Ol | | Setting |

| Setting | Description |
|----------------------|---|
| Description | Enter the description or memo about this setting. |
| Address Mode | Select [Word] to set the relevant attributes. |
| Min. value | Set the minimum value that can be written to the |
| | designated word address. |
| Max. value | Set the maximum value that can be written to the |
| | designated word address. |
| Disable remote-write | If selected, the remote HMI will not be able to |
| operation | write to the protected address. |
| Used only in | If selected, the range between [Min. value] and |
| remote-write | [Max. value] is only used to restrict the value |
| operation | written by a remote device. |
| Use min. value when | If selected, when the written value is less than |
| write value is less | [Min. value], the system will write the specified |
| than min. value | minimum value instead. |
| | If not selected, when the written value is less |
| | than [Min. value], the system will keep the |
| | original value. |
| Use max. value when | If selected, when the written value is greater than |
| write value is more | [Max. value], the system will write the specified |
| than max. value | maximum value instead. |

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| | If not selected, when the written value is greater |
|--------------|---|
| | than [Max. value], the system will keep the |
| | original value. |
| Notification | When the written value is not within the specified |
| | range between [Min. value] and [Max. value], the |
| | system will trigger the designated notification bit |
| | address. |

As shown in the preceding figure, the remote HMI will not be able to write to LW-0, and when the value written to the local address is greater than 10, the value 10 is written instead, and the notification bit LB-0 will be set ON.

39.2.2. Bit address settings

Set the restrictions relevant to local Bit addresses.

| Description : | LB-10 |
|---------------------------|---|
| Address Mode : | Bit 👻 |
| PLC name : | Local HMI T |
| Address : | LB 🔻 10 |
| | Set ON only Set OFF only emote-write operation ly in remote-write operation |
| ☑ Used on | emote-write operation |
| | emote-write operation |
| ☑ Used on Iotification | emote-write operation ly in remote-write operation |

| Setting | Description |
|--------------|---|
| Description | Enter the description or memo about this setting. |
| Address Mode | Select [Bit] to set the relevant attributes. |
| Set ON only | If selected, the designated bit address can only be |
| | set ON. |
| Set OFF only | If selected, the designated bit address can only be |
| | set OFF. |

| Disable remote-write | If selected, the remote HMI will not be able to | | |
|----------------------|---|--|--|
| operation | write to the protected address. | | |
| Used only in | | | |
| remote-write | If selected, the specified condition is only used to | | |
| operation | restrict the write operation by a remote device. | | |
| Notification | When enabled and: | | |
| | Select [Set ON], the system will trigger the | | |
| | notification bit address when attempting to | | |
| | set OFF the protected bit address. | | |
| | Select [Set OFF], the system will trigger the | | |
| | notification bit address when attempting to | | |
| | set ON the protected bit address. | | |

As shown in the preceding figure, the remote HMI can only set ON LB-10, while the local HMI is not restricted. If the remote HMI attempts to set LB-10 OFF, the system will trigger notification bit LB-0 ON.

