

Schneider PowerLogic Modbus TCP/IP

Supported Series: Schneider PowerLogic Modbus TCP/IP

Website: <https://www.schneider-electric.com/ww/en/>

HMI Setting:

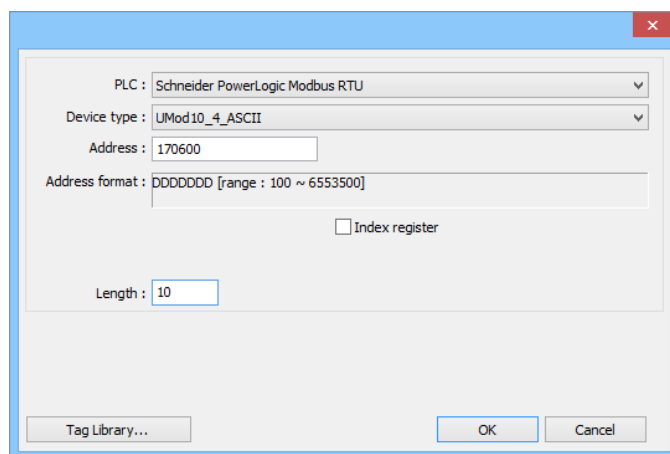
| Parameters | Recommended | Options | Notes |
|--------------|------------------------------------|---------|-------|
| PLC type | Schneider PowerLogic Modbus TCP/IP | | |
| PLC I/F | Ethernet | | |
| Port no. | 502 | | |
| PLC sta. no. | 1 | | |

Device Address:

| Bit/Word | Device type | Format | Range | Memo |
|----------|----------------|---------|---------------|----------------------------|
| B | 0x | DDDDD | 1 ~ 65535 | Output bit |
| B | 1x | DDDDD | 1 ~ 65535 | Input bit (read only) |
| B | 3x_Bit | DDDDDdd | 100 ~ 6553515 | Input Register bit (read |
| B | 4x_Bit | DDDDDdd | 100 ~ 6553515 | Output Register bit |
| B | 0x_multi_coils | DDDDD | 1 ~ 65535 | Write multiple coils |
| W | 3x | DDDDD | 1 ~ 65535 | Input Register (read only) |
| W | 4x | DDDDD | 1 ~ 65535 | Output Register |
| DW | 5x | DDDDD | 1 ~ 65535 | 4x double word swap |
| W | 6x | DDDDD | 1 ~ 65535 | 4x single word write |
| W | UMod10_4_ASCII | DDDDDDD | 100 ~ 6553500 | Read 64 bits unsigned data |
| W | UMod10_3_ASCII | DDDDDDD | 100 ~ 6553500 | Read 48 bits unsigned data |
| W | Mod10_2 | DDDDD | 1 ~ 65535 | Read 32 bits data |
| W | UINT64_ASCII | DDDDDDD | 100 ~ 6553500 | Read 64 bits unsigned data |
| W | Mod10_4_ASCII | DDDDDDD | 100 ~ 6553500 | Read 64 bits signed data |
| W | Mod10_3_ASCII | DDDDDDD | 100 ~ 6553500 | Read 48 bits signed data |
| W | INT64_ASCII | DDDDDDD | 100 ~ 6553500 | Read 64 bits signed data |

Use the driver "Schneider PowerLogic Modbus RTU", you should see that it has extra data types in addition to Modbus ones. Because the 64-bit objects are not natively supported by numeric objects yet, we have to use ASCII objects to display them.

You can treat Mod10_2 just as any other normal address because it's also 32 bit data. However, when you use ASCII types, please beware of its special addressing method, and the length of memory allocation.



Addressing method:

it is necessary to add a suffix of 00. For example, to read register 1716 [Energy, Real Total] in PM800, you should address it with 171600.

Length of memory allocation:

When using ASCII, it is necessary to specify the length, that is, the number of word memory. Each WORD holds two characters. So if , as the picture above, I've specified the length of 10, I can have maximum of 20 characters for this object (including the negative sign). Please adjust this parameter according to the expected data.

Wiring Diagram:

Diagram 1

Ethernet cable:

