QUICK START FOR EX250-SEN1 Using RSLogix5000

POWER WIRING FOR SMC EX250-SEN1

EX250-SEN1 Power Wiring in NOT the same as the EX260-SEN1 or EX500-GEN1.

Typical Cordset color code (M12 female 5 pin A code standard key):

- Brown => +24 (Valves)
- White => 0 (Valves)
- Blue  => +24 (Node and Inputs)
- Black => 0 (Node and Inputs)
- Grey  => Ground (either ground here or ground on M3 lug. Not both)
Ethernet Wiring:

- Pin assignment of plug connector
- Terminal No.
- Cable core wire external color

Wiring diagram
- Shield
OPTION 1: Through Switches on Unit:

- Remove power.
- Set Dip Switch 1 to 4 to select 192.168.0.X.
- X can be 1 to 14
- Apply Power.
Option 2: Using Rockwell BOOTP/DHCP Server Utility

USING ROCKWELL BOOTP/DHCP SERVER UTILITY WITH SMC EX250-SEN1

- Remove power and set Dip Switch 1-4 to ON.
- Apply power for 15 seconds, then remove power.
- Set Dip Switch 1-4 to OFF.
- Start Rockwell BOOTP/DHCP software and attach to EX250 via Ethernet port.
- With Software running and cable attached, apply power to EX250. **You must have the software ready and the Ethernet cable connected, then cycle power to the EX250.** The EX250’s MAC address will start to show up on the screen but only for a few seconds so you must be ready to catch it.

You should see following screen:

![BOOTP/DHCP Server 2.3](image)

Note: If an IP Address has already been set via BOOTP Server, you may select it from the Relation List and “Enable BOOTP” to set a different address.
Double Click on MAC address and IP window will pop up.

Fill in desired IP address and hit OK.

Address will appear in Relation List.
Click on that IP Address and select “Disable BOOTP/DHCP” to retain that IP address during the next power up. Try to hit the Disable BOOTP/DHCP within 5 seconds of setting address.

If the Disable BOOTP/DHCP Command is NOT successful (see message in lower left hand corner):

- Cycle Power to EX250
- Wait for the MAC address along with the IP Address to appear in the REQUEST HISTORY list
- Select the device in the RELATION LIST and click DISABLE BOOTP/DHCP.
- You should see Command Successful
- Use Dos prompt (Run CMD) to ping device.

Once Disable Command is successful, Setup is complete.

To clear an existing IP Address, turn off power to EX250-SEN1 and set Dip Switch 1-4 to ON. Then power up EX250. Power down EX250 and set Dip Switch 1-4 to OFF and start procedure from beginning.
HARDWARE CONFIGURATION IN RSLOGIX

The EX250 can be set up manually as a GENERIC MODULE or you can use our ADD ON PROFILE.

This is what is required for manual configuration:

**Connection Parameter**

**Assembly Instance values:**

<table>
<thead>
<tr>
<th>Description</th>
<th>&quot;Data-INT&quot;</th>
<th>&quot;Data-SINT&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comm Format</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Output</td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td>Configuration</td>
<td>1</td>
<td>1</td>
</tr>
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</table>

**Size:**

<table>
<thead>
<tr>
<th>Description</th>
<th>&quot;Data-INT&quot;</th>
<th>&quot;Data-SINT&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comm Format</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input</td>
<td>3 words</td>
<td>6 bytes</td>
</tr>
<tr>
<td>Output</td>
<td>2 words</td>
<td>4 bytes</td>
</tr>
<tr>
<td>Configuration</td>
<td>0 word</td>
<td>0 byte</td>
</tr>
</tbody>
</table>

When you go to Add a New Module, you select ETHERNET_MODULE Generic Ethernet Module

Select Data-INT or Data-SINT and fill in the Assembly Instance and Size as shown above.

Example:
To use SMC’s ADD ON PROFILE, click on the “Add-on Profile” link under the Remarks column to download the file from the following web page:


After you have installed the AOP, you will find SMC as a choice under Vendors when you go to Add a New Module.

RSLogix5000 Version 19 or lower.

RSLogix5000 Version 20 or higher.
Once you select EX250, you only need to fill in the IP address and the tag name.

**LED DISPLAY:**

**LED Indication and Settings**

- **LED indication**

<table>
<thead>
<tr>
<th>Display</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOL</td>
<td>OFF</td>
</tr>
<tr>
<td></td>
<td>Green light ON</td>
</tr>
<tr>
<td>PWR</td>
<td>OFF</td>
</tr>
<tr>
<td></td>
<td>Green light ON</td>
</tr>
<tr>
<td>MS</td>
<td>OFF</td>
</tr>
<tr>
<td></td>
<td>Green light ON</td>
</tr>
<tr>
<td></td>
<td>Green flashes</td>
</tr>
<tr>
<td></td>
<td>Red flashes</td>
</tr>
<tr>
<td></td>
<td>Red light ON</td>
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<tr>
<td>NS</td>
<td>OFF</td>
</tr>
<tr>
<td></td>
<td>Green flashes</td>
</tr>
<tr>
<td></td>
<td>Green light ON</td>
</tr>
<tr>
<td></td>
<td>Red flashes</td>
</tr>
<tr>
<td></td>
<td>Red light ON</td>
</tr>
</tbody>
</table>
The complete manual may be downloaded from the following web page.


For Technical Assistance, please use the phone number or email listed below.

SMC North America Support:  1-800-762-7621
Or
Applications Engineering at aeg@smcusa.com