

TECHNICAL NOTE – RL2400S

CABLING AN RL-2400S TO OMRON C200HE (CPU42) PLC

To connect directly from a PC to the Omron C200HE (cpu42), hook a straight through serial cable from a COM port of the PC to the PLC, making sure baud rates are the same.

Configuring the Wireless RL-2400S Modem to Omron C200HE PLC

Following are the configuration steps to establish a communication link between the RL-2400S radio modems and the Omron PLC. Using the RL-2400S Setup & Diagnostic Software, select a new network, either Point-Point or Point-MultiPoint Broadcast. If a single PC is communicating with a single PLC, a Point-Point network will work. If a single PC or Master PLC is connected to multiple PLCs, then a Point-Multipoint Broadcast network is needed. Modules ID211 (inputs) and OC225 (outputs) were in slots 1 and 2, respectively.

Once the network has been selected, the serial parameters need to be configured for the master and each remote radio within the network. The following radio settings were used to communicate between the PC and the C200HE:

- Baud Rate - 9600
- Parity - Even
- Data Bits - 7
- Stop bits - 2
- Handshake - None

For further information regarding the RL-2400 Setup & Diagnostic software, refer to the RL-2400S radio modem User's Manual (ProSoft P/N 005-0002), or use the RL-2400 on-line help menu.

The C2090HE wireless network is ready to be tested. The following steps will determine if the radio modem connections are properly configured:

- Launch SYSWIN 3.4 software
- Go to file
- Open project "demo2c.swp"
- Go to Project
- "Change Project Setup"
- From here type in the correct PLC and CPU you are using

PLC should now be connected. If PLC is not connected go to:

- Online "connect"
- Then to Online "monitor"

When the first three I/O switches are toggled on ID211, the contacts on the PC screen should change also.