

## Convert Serial Port Connections for Streamlined Ethernet Access



*Use Ethernet infrastructure for direct device communications.*

### Features and Benefits

#### Reduce Telecommunications Operating Costs

Use SEL-2890 Transceivers and your Ethernet network instead of expensive leased or dial-up connections to reduce monthly operating costs. Connect to a serial port on your PC to operate proprietary device-support software through an Ethernet network without modifying the PC software. Replace a multidrop wired network (e.g., serial Modbus® network).

#### Add Remote Access to Reduce Costs

Communicate with sites that have valuable data where leased or dial-up lines were too costly.

#### Streamline Terminal Access to Save Engineering Time

Use Telnet software for ASCII terminal connections to check the status, read metering data, or to examine history or event records.

#### Simplify Access With Familiar Webpage Interface

Use familiar web browser interfaces to easily view information with minimal training. The SEL-2890 Transceiver provides a webpage. Customize the webpage using your browser's FTP features.

#### Improve Customer Service Through Email Alerts

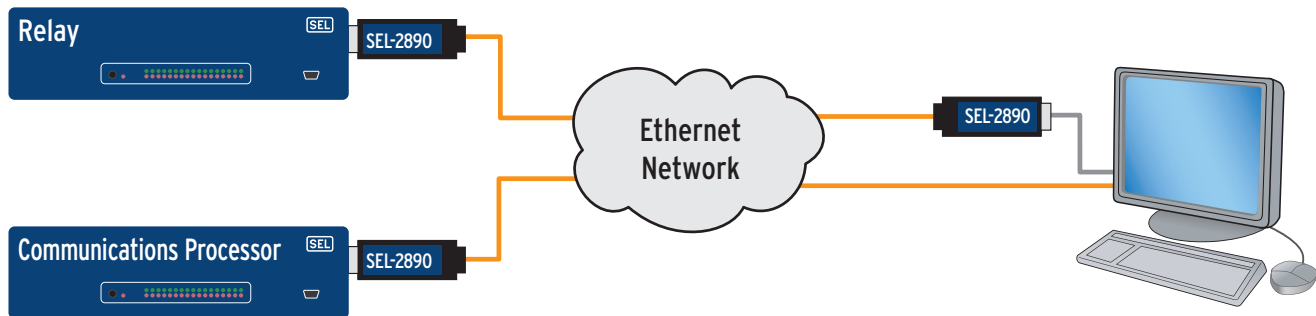
If a power system fault occurs, set the transceiver to send email, including the fault type and location. Send SEL relay automatic messages to a specified address for quick notification and logging.



*Use the SEL-C642 Configuration Cable to provide power to the SEL-2890 when used with a PC or other ac-powered device.*

# SEL-2890 Ethernet Transceiver

## Application



## Application Summary

### Streamline Your Information Access

- Access electrical system information, device status, event reports, and more.
- Use familiar communications tools.
  - PC network interface card
  - Telnet
  - Webpage
  - Email for automatic alerts

### Use Ethernet Instead of Point-to-Point and Multidrop Wired Networks

- Connect SEL-2890 to master device.
- Apply serial tunneling for point-to-point connections.
- Use serial routing for virtual multidrop connections; for example, route a serial Modbus network.

## Installation Summary

1. Connect to a PC using the SEL-C642 Configuration Cable.
2. Use a terminal program to enter the transceiver settings.
3. For connecting to an SEL product, set the jumper for the serial port to provide 5 Vdc power. For other devices, use the SEL-C642 Cable or provide 5 Vdc on Pin 1 with a custom cable.
4. Connect the transceiver to the device serial port.
5. If using the SEL-C642 Cable, connect the power supply to an ac power outlet.
6. Attach the Ethernet connector to an Ethernet network.

## Specification Summary

### Ethernet and Serial Connections

#### Ethernet

Connector	RJ45 female
Data Rate	10 Mbps
Interface	10BASE-T, IEEE 801-2

#### Serial

Connector	DB-9 male
Data Rate	300 to 115,000 bps
Interface	EIA-232 plus Pin 1 power

### Substation and Plant-Grade Equipment

Designed, built, and tested with the same practices, processes, and standards used for SEL protective relays, communications processors, and other products.



Pullman, Washington USA  
Tel: +1.509.332.1890 • Fax: +1.509.332.7990 • www.selinc.com • info@selinc.com

© 2002-2012 by Schweitzer Engineering Laboratories, Inc. PF00011 • 20120418

