



SEL-2515 Remote I/O Module

Remote I/O for SCADA and Station Integration



*Provides Additional Digital
Inputs and Outputs for SEL
Communications Processors*

Major Features and Benefits

■ Additional Monitoring and Control

Eight digital inputs monitor the status of external contacts that are transmitted via SEL Fast Meter messages to a communications processor. Control eight contact outputs using SEL Fast Operate commands.

■ Improved Safety

Use fiber-optic cable instead of control wiring to outside apparatus to eliminate exposure to ground-potential rise and other dangerous voltages that can be present in a substation yard.

■ Easy Application

LEDs indicate the position of each contact output and the status of each sensed input. An "ENABLE" LED indicates that the unit is properly functioning. A "LAMP TEST" pushbutton illuminates all of the LEDs. DIP switches are used to set basic operating parameters.

■ Dependability

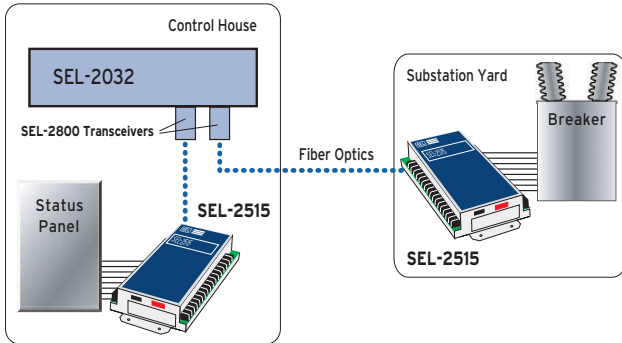
Fiber-optic links reduce or eliminate data errors from electromagnetic interference. The SEL communications processors monitor the fiber-optic connection to the SEL-2515. The communications processors create alarms when the fiber-optic cabling is damaged, disturbed, or disconnected.

Making Electric Power Safer, More Reliable, and More Economical™

SEL-2515

Remote I/O Module

Application Overview



Control and monitor remote devices through reliable, safe, low-cost fiber-optic links. Add input and output (I/O) to SEL communications processors. Communications processor-based systems are far more reliable than RTU-based systems and provide added functionality to tap the valuable data in digital protective relays.

An RTU only provides remote I/O for SCADA; therefore, you do not benefit from the other functions available through an SEL communications processor-based system—protection settings management, power system report management, high-speed local logic, and direct engineering access. The added I/O of SEL-2515 Remote I/O Modules allows you to select a communications processor solution for even more applications, instead of settling for an RTU.

General Specifications

Fiber-Optic Port Options

Connectors	Fiber	Distance	Transceiver Compatibility
V-System	Multi-mode	≤ 500 m	SEL-2800
ST	Multi-mode	≤ 15 km	SEL-2815
ST	Single-mode	≤ 80 km	SEL-2830

Fiber-Optic Port Speed

19,200 bps
9,600 bps

Output Contacts

IEEE C37.90 Tripping Output Performance
Make: 30 A
Carry: 6 A
MOV Protected: 270 Vac RMS
360 Vdc continuous

Logic Input Ratings

4 mA nominal input current
Voltage Ranges (selected at order time):
24 Vdc: On for 15-30 Vdc
48 Vdc: On for 38.4-60 Vdc
Off if < 28.8 Vdc
110 Vdc: On for 88-132 Vdc
Off if < 66 Vdc
125 Vdc: On for 105-150 Vdc
Off if < 75 Vdc
250 Vdc: On for 210-300 Vdc
Off if < 150 Vdc

Operating Temperature Range

-40° to +85°C (-40° to 185°F)

Power Supply Ratings

48/125 Volt: 36-200 Vdc or 85-140 Vac, 5 W max.
125/250 Volt: 85-350 Vdc or 85-264 Vac, 5 W max.

Dimensions

338.6 mm x 165.1 mm x 55.2 mm
13.33"H x 6.5"W x 2.175"D

Related Products

SEL-2800 Fiber-Optic Transceiver
SEL-2815 Fiber-Optic Transceiver
SEL-2830 Fiber-Optic Transceiver
SEL-2032 Communications Processor
SEL-2030 Communications Processor
SEL-2020 Communications Processor

Commitment to Quality

Schweitzer Engineering Laboratories, Inc. is committed to quality. Our certification to the ISO 9001 quality standard and our ten-year product warranty are examples of this commitment. We encourage and appreciate your feedback about the use of SEL equipment, and we will use this information to continually improve our products and services.



Contact Us

SEL sales representatives are prepared to assist you. Contact your nearest sales representative, application engineer, or customer service representative at (509) 332-1890. Visit our web site at www.selinc.com for more information.

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