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New Adapter Converts SEL Relay EIA-485 Ports to Fiber-Optic Links

PULLMAN, WA — July 19, 2010 — Schweitzer Engineering Laboratories, Inc. (SEL) today announced the introduction of the SEL-9220 Fiber-Optic Adapter for SEL-300 Series Relays. The SEL-9220 mounts directly to the EIA-485 port on the relay connector that is normally occupied by a compression terminal block. It converts the EIA-485 port to a dedicated point-to-point fiber-optic link that is compatible with SEL-2812 Fiber-Optic Transceivers With IRIG-B and built-in fiber-optic interfaces on a variety of SEL devices. The SEL-9220 and SEL-2812 use one pair of optical fibers for full-duplex communications of serial data, plus transfer an IRIG-B time signal to coordinate device clocks.

SEL-300 Series Relays have two EIA-232 ports and one EIA-485 port on the back for permanent connections. Many applications require three fiber-optic links. SEL-2812 transceivers convert the EIA-232 ports to fiber-optic links, and the SEL-9220 provides the third link.

SEL Senior Engineer Gary Scheer said, “For example, in a generating plant, an SEL-300G Generator Relay monitors and protects each generator. The SEL-9220 provides the third optical link so the SEL-300G can monitor winding temperatures with an SEL-2600 RTD Module, detect field ground faults with an SEL-2664 Field Ground Module, and communicate with a plant control or SCADA system.”

Other applications include SEL-300 Series Relays in electrical substations that often use one port to communicate with a substation automation system or SCADA, another for remote engineering access, and a third for high-speed relay-to-relay communications for distributed bus protection, main-tie-main-schemes, distribution automation, rapid restoration, or remote teleprotection schemes.

For more information on features, benefits, and applications, or to request a visit from an SEL representative, visit www.selinc.com/p117.

SEL serves the power industry worldwide through the design, manufacture, supply, and support of products and services for power system protection, monitoring, control, automation, and metering. SEL offers unmatched local technical support, a worldwide, ten-year product warranty, and a commitment to making electric power safer, more reliable, and more economical.

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