

For your automation solutions
**Collaborative Automation
Partner Program**
Global connectivity from the
leader in industrial fiber optics



Schneider Electric
and **Weed Instrument**



> Weed Instrument provides modular fiber optic communications solutions for industrial networks

Weed Instrument provides transparent, cost-effective migration paths with better isolation and increased noise immunity over greater distances utilizing our copper to fiber media converters: 4-20mA/ 0-10VDC data links, fiber optic multiplexers, and unmanaged to fully-managed industrial Ethernet switches.



Flexibility

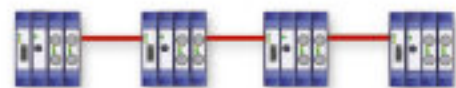
Weed Instrument's modular design lets you select just what you need. Whether Modbus Plus, Modicon Remote I/O, Modbus RTU, or Modbus TCP/IP, you can choose the appropriate modules to convert the data communication signal from copper to fiber. With Weed's Optical Interface Modules (OIM), you can create point-to-point, daisy chain, STAR or Redundant Ring topologies.

Why fiber optics?

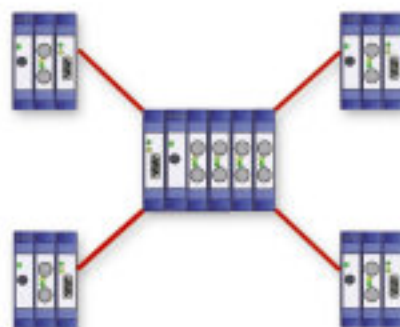
The utilization of fiber optic data transmission for industrial automation and process control has become increasingly popular over the past decade. Optical fibers are very small, lightweight, corrosion resistant, and immune to electrical noise from lightning storms and electromagnetic interference (EMI/RFI). In addition, fiber optic cables do not carry electrical energy and are approved for hazardous locations. Today, fiber optic communications are the preferred choice for industrial factory automation and process control networks.



Point-to-Point



Daisy Chain

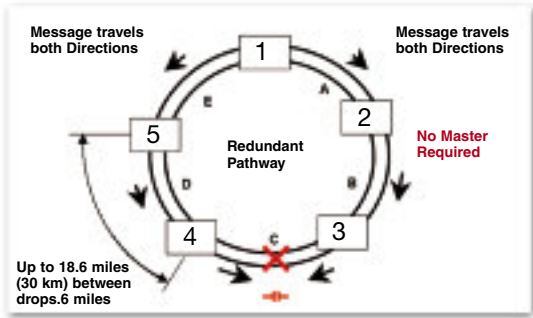


STAR



Fault-tolerant self-healing ring networks

A Self-Healing Ring (SHR) module provides fiber media redundancy when utilized in each node or drop of a fiber optic ring network. The SHR module detects and redirects data to the secondary fiber path when a break in the fiber occurs between two adjacent nodes. The SHR automatically resets when the fiber path has been restored. Visible LED indicators, in conjunction with relay contacts, provide local and remote monitoring of the integrity of the fiber optic network.



Real-time diagnostics

2Dxx optical modules provide a full diagnostic output (4-20mA). The output is internally powered and is proportional to the received optical power. The output can be monitored and processed continuously in order to insure the integrity of the fiber optic link. This is beneficial for critical applications such as subsea networking or security and surveillance networks where degradation of the optical signals can be detected before a complete loss of communication occurs. An output less than 4mA indicates loss of optical signal. A pluggable screw terminal connection on the bottom front of the module provides easy access to the output signal.

Fast Re-configuration of Network Topology (FRNT) protocol

The Fast Re-configuration of Networks Topology (FRNT) protocol offers ultra fast ring re-configuration (30ms) of the network topology and both fault contact and SNMP to provide notification of a ring failure. Redundancy can be achieved for most types of network topologies, such as Single Ring, Double Rings and Bridged Rings (redundant connections between two rings). A redundant ring topology is a good choice when high availability is needed and when ultra fast re-configuring of ring failures is necessary.



> Fiber optic networking protects your critical systems

Fiber optic converters for bus systems and serial data interfaces

Weed Instrument's fiber optic products meet the demanding requirements of industrial communication networks. Our industrially hardened, modular design provides optimal solutions for automated factories and critical processes.

- Fiber converters compatible with all Schneider protocols.
- Fully managed and unmanaged Ethernet switches.
- Configurable for all network topologies.
- Self-Healing Ring Media Redundancy.
- Integrated bus system – no external wiring.
- Dual redundant power supplies.
- Industrial temperature range (-40 to 85°C).
- Class 1, Div 2 hazardous approvals.
- DIN-Rail mounting, modular design.



More service with Schneider Electric's worldwide coverage

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With over 5000 sales outlets in 130 countries, wherever you are you can be sure of finding a full range of products to meet your needs and fully compliant with the standards in your country.

■ **Technical support**

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Industrial fiber optic networking for factory automation and process control

Weed Instrument is the world's leading manufacturer of fiber optic converters for industrial automation networks. Our products are installed in tens of thousands of locations worldwide and are compatible with any network configuration or topology.

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