

# FDM7000

## FIBER OPTIC MODEM



### FEATURES

- Transmits at higher speeds and greater distances than coaxial cable
- Versatile and easily expandable
- Immunity to electromagnetic interference
- Maximum security with no loss of data
- More reliable and less expensive than copper
- Supports RS232, AE485 and RS422 interfaces
- Easily interfaces with PLCs, RTUs and PCs
- Point-to-Point operation
- Factory or field configured for your application—ensuring trouble-free installation
- Multi-mode transmits up to 1.4 miles (2.25 km)

Data Linc Group's FDM7000 Fiber Optic Digital Modem series offers maximum reliability and accuracy for fiber optic data communication in industrial environments. It provides optical isolation while supporting long-range, high speed communication over two fibers.

Fiber optic cabling increases bandwidth by carrying more data information with greater reliability than most other mediums, such as coaxial cable or copper wiring. Data can transmit at higher speeds and greater distances than coaxial cable. It is immune to lightning, crosstalk and ground noise, while maintaining maximum immunity to interference. In addition, fiber optic cabling ensures data security because it is extremely difficult to tap into non-radiating signals.

The FDM7000 series offers simplex, half-duplex or full-duplex operation in industrial environments. It will easily interface with PLCs, RTUs and PCs, and RS232, AE485 and RS422 serial interfaces. The FDM7000 series provides a transparent data link to 115.2 Kbps. The multi-mode FDM7000 offers increased bandwidth at high speeds, over distances of up to 1.4 miles (2.25 km).

### APPLICATIONS

- In power plants, high-voltage areas and high EMI/RFI environments
- For control systems needing long-range, high speed data rates
- To transfer large, time-consuming data files
- Water/wastewater, pulp/paper and petrochemical plants

## FDM7000 SPECIFICATIONS

### Fiber Cable Industrial grade glass, 50/125

#### Range

Multi-Mode. 1.4 miles (2.25km)

#### Data Rate

Transparent from 0 to 115 Kbaud. Simplex on one cable or half-duplex/full-duplex on two cables.

#### Data Format

Asynchronous data stream

#### Data Interface

RS232

**Optional.** RS422, AE485 available

#### Receiver Sensitivity

-34.4 dBm

#### Mating Connectors

ST type fiber optic connectors

#### Operation

Point-to-Point

#### Optical Power

-15.2 dBm

#### Power Requirements

9-15 VDC 60 mA (optional 24 VDC available)  
120 VAC to 12 VDC, external wall-mount power supply provided

#### Operating Environment

**Temperature.** -40° to +185° F (-40° to 85° C)  
**Humidity.** 0-95%, non-condensing.

#### Enclosure

**Standard.** 18-gauge steel enclosure.

**Optional.** Chassis mount available for Allen-Bradley, GE Fanuc and Schneider PLCs

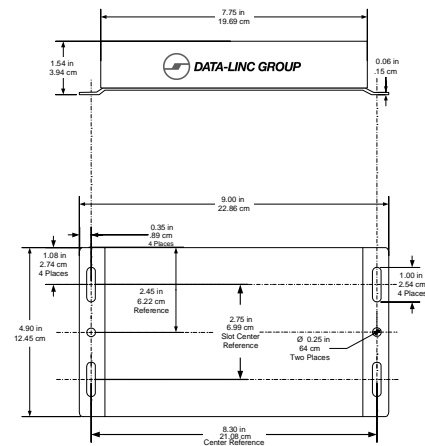
**Dimensions.** See diagram

**Weight.** 1.6 lbs (.73kg)

Specifications subject to change without notice.

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## FDM7000 DIMENSIONS



## ABOUT DATA-LINC GROUP

For over fifteen years, Data-Linc Group has provided reliable communication solutions for industrial automation systems. Data-Linc Group, an alliance partner with most major PLC manufacturers including Rockwell Automation, Siemens, Schneider Electric, GE Fanuc, and Omron, as well as others, provides expert technical support and communications consultation. Data-Linc's industry proven RF technology has been successfully implemented in all major industries including automotive plants, consumer goods manufacturing/packaging, steel mills, mines, oil/gas refineries, paper mills, utilities and transportation systems. Its products are available worldwide. Data-Linc recently expanded its market with a line of wireless modems for the European Union.

## ALLIANCE PARTNERS



### Corporate Headquarters

3535 Factoria Blvd. SE  
Suite 100  
Bellevue, WA 98006 USA  
info@data-linc.com

Tel: (425) 882-2206  
Fax: (425) 867-0865

www.data-linc.com

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