

DLM4000

DIAL-UP / LEASED LINE MODEM



Data-Linc Group's DLM4000 series of voice band modems offers maximum versatility and reliability in remote process control and data acquisition. From dial-up, leased and private line applications, the DLM4000 series provides unsurpassed flexibility in any industrial application.

The DLM4000 series uses advanced Trellis coding, error correction and data compression technology for virtually error-free data communications. An uncompressed PLC line speed of up to 19.2 Kbaud is standard; however, port baud rates of 1200 through 115.2 Kbaud are also available.

The DLM4000 operates full/half-duplex on two wires. The asynchronous digital interface can be either RS232/422 or AE485. The DLM4000 Auto-Answer AE485 version easily provides long distance polling of multiple PLCs at a remote site. The polling operation performed by the Master is completely transparent to the DLM4000. No additional master programming is required—simply enter the Remote DLM4000 telephone number.

Housed in a rugged steel enclosure for optimal EMI resistance, the DLM4000 series is factory configured for trouble-free installation. No programming or configuration is required.

Auto Alarm Dial Back

An Auto Alarm Dial Back module is available on the DLM4000. This gives the Remote PLC the ability to establish a data path to a Master PLC or PC via a logic input from the Remote PLC to the Auto Alarm Dial Back module. This could be used for Remote alarming or time based data updates.

DLM4000 FEATURES

- Ideal for industrial dial-up, leased line, private line or dedicated wire applications
- Optional auto-dial module for alarm conditions or emergency calls by sensing a logic flag from the remote PLC
- Versatile, reliable and durable—designed especially for industrial applications
- Easily interfaces with most PLCs, RTUs and PCs
- Factory or field configured for your application—ensuring trouble-free installation

APPLICATIONS

- SCADA system communications
- Remote PLC programming and diagnostics
- Remote alarm monitoring
- PLC/RTU communications

DIAL-UP OR LEASED LINE MODEM

DLM4000 SPECIFICATIONS

Compliance

EMI/RFI: FCC Part 15, Class B, DOC Class/ MDC Class B

Phone Compatibility: FCC Part 68

Ringer Equivalence 0.47B

Carrier Trellis Coded Modulation (TCM) 1700 or 1800 Hz

Standards

Modem Communication. ITU-TSS (CCITT) V.34, V.43bis, V.32, V.23, V.22bis, V.22 and V.21; Bell 212A and 103

Error Correction. ITU-TSS (CCITT) V.42 and MNP2-4, function disabled

Data Compression. ITU-TSS (CCITT) V.42 and MNP5, function 4 Kbps, 9600, 4800 and 1200 Bps 4800 and 1200 Bps

DTE Speeds Supported Up to 115.2 Kbaud

Dial Type Touch-tone, pulse or adaptive (user selectable)

Dial Features User selectable

Transmission Level 0 to -15 dBm

Receiver Sensitivity -43 dBm

Distance. Maximum RS232 cable length of 50 ft (15m)

Range

20 miles* (32 km) on unloaded line, unlimited for loaded lines and dial-up applications

Internal Memory

RAM. 40 character command buffer

NVRAM. Two factory-default configuration profiles, two user defined configuration profiles and 10 stored telephone numbers, each up to 36 characters

User Controls

Standard. AT Command Set, Internal Dial-up/Leased Line/Configuration Jumper, Power On-Off Toggle Switch

Optional Auto Answer/Dial Back internal discrete signal control module

Diagnostics. Tests using &Tn

Connections

Standard. Rear mounted, DB25 female

Optional. Two position AE485 or four position RS422

Power

Standard. Wall mount power supply, 110/120 VAC to 9 VAC, 800 mA

Optional. 24 VDC (user supplied) power interface, two position terminal block. 24 VDC, 300 mA

Operating Environment

Temperature. 32° to 131° F (0° to 55° C)

Humidity. 0 to 95%, non-condensing

Enclosure

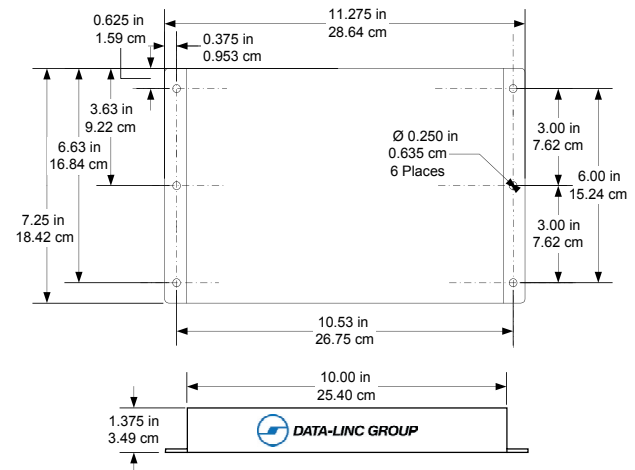
Standard. NEMA 1; 18-gauge steel with mounting flanges.

Weight. 3.62 lbs (1.64 kg)

Specifications subject to change without notice.

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DLM4000 DIMENSIONS



ABOUT DATA-LINC GROUP

Since 1988, 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 as well as the instrumentation industry. With its line of wireless modems for the European Union, Data-Linc's products and support are available worldwide. All Data-Linc products provide field proven performance and come with industrial grade support. For more information, please contact us.

ALLIANCE PARTNERS



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