Data-Linc Group’s DLM4100 voice band modem offers maximum versatility and reliability in remote process control and data acquisition. The DLM4100 series provides unsurpassed flexibility in dial-up applications.

The DLM4100 series uses advanced Trellis coding, error correction and data compression technology for virtually error-free data communication. Uncompressed PLC line speeds are available between the port baud rates of 1200 to 19.2 Kbps.

The DLM4100 operates full/half-duplex on two wires. The asynchronous digital interface can be ordered as either RS232, AE485 or RS422. The DLM4100 auto-answer AE485 easily provides long distance polling of multiple PLCs at a remote site. The polling operation performed by the Master is completely transparent to the DLM4100. No additional Master programming is required—simply enter the Remote DLM4100 telephone number.

The DLM4100 is housed in a rugged steel enclosure for optimal EMI resistance or available in PLC slot-mount versions. The DLM4100 is factory configured for trouble-free installation. No programming or configuration is required.

**Features**

- Ideal for industrial dial-up applications
- Extended temperature range
- Available as stand-alone or PLC chassis mount
- Versatile, compact and durable
- Designed for industrial communication between a PLC and a PC and/or PLC to PLC and other devices
- Easily interfaces with most PLCs and PCs
- Factory preconfigured for trouble-free installation

**Applications**

- PLC chassis mount communication devices
- SCADA system communications
- Remote PLC programming and diagnostics
- PLC/RTU communications
- Extended temperature ranges

Contact Data-Linc Group for an application review.
DLM4100 Specifications

Compliance. EMI/RFI: FCC Part 15, Class B, DOC Class/ MDC Class B; Phone Compatibility: FCC Part 68

Ringer Equivalence. 1.0B

Carrier. Trellis Coded Modulation (TCM) 1700 or 1800 Hz

Standards

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

Error Correction. ITU-TSS (CCITT) V.42 and MNP

Levels 2-4, function disabled

Data Compression. ITU-TSS (CCITT) V.42 and MNP

Levels, function disabled

Interface

Telephone Line. Modular TELCO, RJ-11

DTE/Other Equipment. TIA RS232, DCE, DB9 female

Protocol. Asynchronous

Data Format. 8 data bits, no parity, 1 stop bit (fixed)

Flow Control. User selectable options; function disabled at factory

Operation. Dial-up

Modem Data Rate. Up to 33.6 Kbps with data compression, 19.2 Kbps maximum factory speed, 14.4 Kbps, 9600, 4800, 2400 and 1200 bps

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

Dial Features. User selectable

Transmission Level. -9 to -12 dBm

Receiver Sensitivity. -43 dBm

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

Range. Unlimited for loaded lines and dial-up applications

Internal Memory

RAM. 40 character command buffer

NVRAM. One stored factory profile

User Controls

Standard. AT Command Set

Diagnostics. Tests using &Tn

Connections

Standard. Front mounted, DB9 female

Optional. Rear mounted, two position AE485 or four position RS422

Power

Standard. Wall mount power supply, 110/120 VAC to 12 VDC, 800 mA

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

Operating Environment

Temperature. 32° to 140°F (0° to 60° C)

Optional Temperature Range. -40° to 185°F (-40° to +85°C)

Humidity. 0 to 95%, non-condensing

Enclosure

Standard. NEMA 1; 18-gauge steel with mounting flanges. Optional NEMA 4 available

Chassis Mount. Available for Allen-Bradley, GE Fanuc and Schneider PLCs

Dimensions. 4.9 X 9.0 X 1.54 inches (12.45 X 22.86 X 3.94 cm)

Weight. 1.7 lbs (.77kg)

Specifications subject to change without notice.

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DLM4100 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

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