

DLM 150



THE DLM 150 IS A COMPACT, FULL FEATURED RS-232 (OPTIONAL RS-485) DATA LINE MONITOR. IT IS A REAL TIMESAVER WHEN TROUBLESHOOTING PRINTERS, TERMINALS, RS-232 WIDE AREA AND RS-485 NETWORKS.

Line Speed

75-57.6 kbps Asynchronous
75-64 kbps Synchronous

Protocols

Asynchronous, Bisynchronous
Sdlc, Isochronous

Autoconfigure

Deciphers, bit rates, number of bits per character, parity and presents data to screen.

Bit/Block Transmission Tests

Output any of the following strings:
RD/TD buffer FOX All bits
User string FOX2 00, FF
Patterns 511 ASCII set 0-FF

Buffer capacity:

28k of non volatile RAM for transmitted data and received screen.

Historical Data

Saves/displays state of the modem control lines with each byte.

Triggers

Triggers can be set to start, stop the data capture process on user-defined strings of up to 80 bytes or modem interface pattern.

Response Analysis

Average times between triggers (up to 4 hours) to measure human, computer and leased line performance.

Performance Analysis

Average trip times on any BERT/block Test. Displays trip time, which tells numbers of characters. per second that can pass through a circuit (throughput).

Interface

RS-232, RS-485 optional

Keyboard

Six keys control over sixty functions.

Display Type

Liquid Crystal Display (LCD)
Two lines of 40 characters each

Parity

Odd, Even, None.

Codes

ASCII, EBCDIC, BAUDOT, IPARS

Power

9-volt battery (40 hours with alkaline) or ext. transformer (supplied).

Physical (Handheld)

5 x 7.5 x 1 inches ; 9 ounces
12.7 x 19.05 x 2.54 cm ; 520 g

English user manual

KEYBOARD OPTIONS

CLEAR BUFFER

Deletes all data in the buffers.

END

Moves the cursor to the end of the screen or buffer.

FORCE CAPTURE

Forcing synchronisation forces the DLM 150 to begin capturing all data. This is useful when the synchronous character is unknown or it is not known if a clock signal is present on pins 15 and 17. All bits will be captured.

MENU

Toggles between the View Mode and the option menu (see Menu Options).

MODEM CONTROL TRANSITIONS

Collects changes to modem control signals.

SEARCH RD, SEARCH TD

Immediately searches contents of the RD (or TD) capture buffer, looking for a match of string 1.

SHIFT ONE BIT RIGHT

Shifts all data in the capture buffer one bit to the right. Useful in conjunction with FORCE CAPTURE

TEXT/HEX

Toggles between displaying data in the current mode (ASCII, BAUDOT, etc) and hex code.

MENU OPTIONS

ANSWERBACK

Transmits a user-defined string upon receiving a user-defined string.

BERT/PERFORMANCE TEST

Bit Error Rate Testing (BERT)- transmits a test pattern through a DCE and back to the DLM 150. The DLM 150 compares the incoming data to the original string, counts and reports errors. Measures the average amount of time it takes for a pattern to transmit and return.

OUTPUT

Transmits a variety of patterns (see transmission options on the front page).

RESPONSE MONITOR TIMER

Monitor human or machine response time by using the timer.

SET TRIGGER CAPTURE

Use a user-defined trigger to begin or terminate data collection.

STATUS MESSAGES

Choose normal, long, short or no status messages.

SUPPRESS CAPTURE

Suppress capture of data on one or both lines.

COMMUNICATION OPTIONS

BAUD RATE	64000* 14400 2000 600 48000 *9600 1800 300 38400 4800 1243 150 19200 2400 1200 75 * Sync only
STOP BITS	1, 1.5, 2
DATA BITS	5, 6, 7, 8.
PARITY	Even, None, Odd
DATA ENCODING	NRZ, NRZ1, FM0, FM1
MODE	Async, Mono Sync, Bisync, SDLC, Isochronous
SYNC CHAR 1	(User-defined, default 16)
SYNC CHAR 2	(User-defined, default 16)
SDLC NODE	All, Node numbers
IGN MULTI-SYNC CHR	Yes, No
RTS/CD CTRL SYNC	Yes, No
DROP SYNC CHAR	None, (User-defined)
IGNORE CHAR	None, (User-defined)
START TRIGGER	Off, TD, RD, (User-defined)
STOP TRIGGER	Off, TD, RD, (User-defined)
TIMER	Off, User-defined strings, Modern signal Patterns
CODE	ASCII, EBCDIC, IPARS, BAUDOT
DISPLAY MODE	Compressed, Expanded
BUFFER ACTION	One fill, Continuous
STATUS MESSAGES	Normal, Long, None, Short
ERROR MESSAGES	Fatal, Warn, None
SUPPRESS CAPTURE	Off, TD, RD, Both
LOAD START/STOP	Off, (User-defined)
HEX REPORT	w/ or w/out modem control
OUTPUT	(User-defined), variety of Predefined patterns
BERT/LOOP PERFORMANCE TEST	(User-defined), variety of predefined patterns (see front)
FLOW CONTROL	Off, XON/XOFF, CTS, DSR
GRAPHIC SET	(User-defined)
EXCLUDE	Off, Control data, Text Data, As defined by the start and end of text characters (see front)
START/END TEXT	Off, (User-defined)
ANSWERBACK	Off, (User-defined)

OPTIONAL : RS232-RS422/485 converter:

Allows your DLM to monitor RS-422/485. It connects directly to the DLM 150 and offers RJ11 and screw terminal connection on the RS422/485 side. The converter comes complete with 9-volt mains adapter and user's manual.



For further information, please contact :