

DLM 200



THE DLM 200 IS A VERSATILE AND INTELLIGENT RS-232 DATA ANALYZER. IT MAKE ANALYSES, TIME STAMP EVENTS, ANSWERS BACK... IT COMPARES WITH MUCH BIGGER AND MORE EXPENSIVE EQUIPMENT. THE RS-485 AND/OR WAN OPTION MAKES IT A COMPLETE RS-485 AND/OR V.10/11/35/36 – RS-422/423/449/530-X21 ANALYZER.

Line Speeds

75-115.2 kbps Asynchronous
75-64 kbps Synchronous
Plus any User Defined speed.

Protocols

Asynchronous, Bisynchronous,
Sdlc, Hdlc, Isochronous, X.25.

Autoconfigure

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

Bit/Block Transmission Patterns

511	RD/TD buffer	ASCII set
User string1	FOX	00, FF
User string2	FOX2	0-FF

Buffer capacity

128k-256k split between transmitted
Data, received data and modem control
history.

Triggers

Start, stop, plus auto reset of start on
stop on user-defined strings up to 80
bytes or any modem interface pattern.

Help

On line help for all functions,
common suggestion library.

Response Analysis

Average times between triggers (up to
four hours) to measure human and
computer performance.

Performance Analysis

Average trip times on any BERT or
block transmission test.

Interfaces

RS-232, parallel printer port
optional: RS-485, V.35, RS-422

Keyboard

Full 64 key, QWERTY-style keyboard
and PC-style keypad.

Display Type

Liquid Crystal Display (LCD)
Graphic-8 line by 40 characters

Parity

Odd, Even, None

Codes

ASCII, EBCDIC, BAUDOT, IPARS

Automatic Power Off

After user-specified timeout; or
disable auto shutoff for over-
night line testing.

Power

9-volt battery (10-20 hours with
alkaline) or extern. Transformer.

Physical (Handheld)

9.25 x 5.5 x 1.37 inches; 23 oz.
23.5 x 13.5 x 3.3 cm; 630 g

English user manual

THE COMMAND KEYS

CLEAR BUFFER

Deletes all data in the buffers.

END

Moves cursor to end of screen or buffer.

FORCE CAPTURE

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

MENU

Toggles between the View Mode and the Configure Menu.

PULSE CAPTURE

Collects changes to any modem control signals up to 40000 changes.

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, etc) and hex code.

F1, F2, F3, F4, , , < , HOME, PAGE DOWN, PAGE UP

All of the F-keys and the cursor-control keys are programmed to serve different functions depending on what screen or menu is on the display.

GOTO LOCATION

Moves cursor to a particular buffer location. For example, type in 6 if you want the cursor to be placed on the sixth character in the buffer.

START/STOP

Use to begin & end many activities.

TIME EVENTS

Used to time events.

VERSION

Displays version of firmware installed.

ANSWERBACK

Special Terminal mode. String2 automatically transmitted when string1 received. Also transmitted when Page down pushed.

BERT/PERFORMANCE TEST

Bit Error Rate Testing (BERT) transmits test pattern through a DCE and back to the DLM, which compares the incoming data to the original string, counts and reports errors and trip time.

EDIT STRING

Drops you into a line editor. From this line editor you can create 1 or 2 80-byte ASCII strings by typing in bytes from keyboard.

RESPONSE MONITOR

Monitor human or machine response time by using the timer.

SET TRIGGER CAPTURE

Begins or terminates data collection.

STATUS

Four separate status screens provide information about the data in the buffer.

SUPPRESS CAPTURE

Suppress capture of data on 1 or both lines.

AUTO TD CONFIG, AUTO RD CONFIG
DLM will analyse TD or RD signal and automatically set to match its parameters.

EDIT MODEM CONTROL SIGNAL MASKS

Create a mask to match a set of modem control signals. Used to start or stop the timer or trigger.

EVENTS AND TIME STAMP

Keep a log of errors and triggers.

HELP

Offers assistance on many topics

LOAD CONFIG1, 2 & 3

The DLM 200 allows to save three sets of system communication parameters.

SAVE CONFIG

The DLM allows to save up to 4 sets of system parameters for quick set-up later.

SET CLOCK

Set the internal clock on the DLM 200.

TIME

Displays current time and date.

COMMUNICATION OPTIONS

BAUD RATE	64000* 14400 1243 56000* 9600 1200 48000* 4800 600 57600 2400 300 38400 2000 150 19200 1800 USER SELECTABLE * 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
DROP SYNC RTS/CD	Yes, No
DROP SYNC CHAR	None, (User-defined)
LOG EVENTS	No, 1Fill, Cont.
CODE	ASCII, EBCDIC, IPARS, BAUDOT
DISPLAY MODE	Compressed, Expanded
BUFFER	One fill, Continuous
STATUS MESSAGES	Normal, Long, None, Short
ERROR MESSAGES	Fatal, Warn, None
AUTO OFF	(User-defines – minutes)
EXCLUDE	Off, Control data, Text Data,
START TXT CHAR	(User-defined)
END TXT CHAR	(User-defined)
REMOTE BAUD	57.6k, 19.2k, 9.6k, 4.8k, 2400, 1200
INVERT BITS	Yes, No

Option 2 : The MC-232 makes your DLM an extensive WAN interface analyser !

This option converts RS-232 to V.10/11/35/36, RS-422/423/449/530 and X.21. The MC-232 works in DTE/DCE and monitor mode, and works up to 128kbps. It can also monitor RS-485 interfaces. A very complete and compact solution, for a marginal price of a big/heavy dedicated WAN analyser.

For more information, ask your MC-232 flyer.



OPTIONAL: IC458 RS-232-RS-422/485 converter

Allows your DLM to monitor RS-422/485. It connects directly to the DLM 200 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 :

Specifications are subject to change without notice.

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