LEAR SIEGLER, INC.

ADM-31



The ADM-31.

A terminal far too smart to be considered Dumb.

No, this isn't a Dumb Terminal™, although the resemblance is rather striking.

Meet the ADM-31. The clever terminal that proves Dumb is only skin deep.

The ADM-31 is a low-cost, high-reliability desktop CRT terminal with a full two-page display as standard equipment, not as an option (as with most other terminals). That means you get double the display potential on the ADM-31 that you'd get on terminals costing several times as much. And that's a pretty clever idea.

The ADM-31 is completely self-contained, and comes equipped with keyboard, control logic, character generator, refresh memory, and interface. Not to mention a microprocessor that makes it even more reliable and easy to use. You can even order it with a printer port option, and get printouts along with your readouts. And the ADM-31's convenient, accessible switches make it one of the most versatile and capable terminals you can buy.

The ADM-31's 90-key keyboard provides all of the functions now available on ADM-1. And more. The keyboard can be factory changed to allow any key cap of the same size to be moved to another location — and still retain its function.

The keyboard is integrated with the main logic, and can generate all 128 ASCII characters (upper and lower case, numerics, punctuation, and control). It features an integral numeric pad, with period, comma, tab, minus and numerals arranged in a familiar calculator format.

As if that wasn't enough, the keyboard includes a caps lock key (to lock the keyboard into upper case display), and a selection of function keys not found on the ADM-1.

But what makes the ADM-31 truly clever is that, like all other Lear Siegler products, it's designed to be upward compatible. So if you're now using an ADM-1, or some other terminal, and want to upgrade to an ADM-31, there's no problem. Just plug the ADM-31 right into the system you've been using all along.

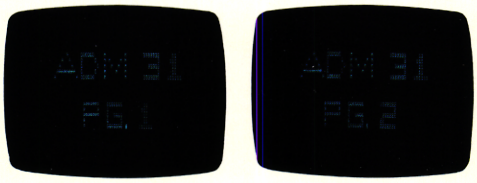
Without re-writing your software.

And without replacing any of your other peripherals.

The ADM-31 is an efficient, cost-effective step upward that'll enhance your system all by itself.

Sound a bit hard to believe? Then check out the ADM-31's features. You haven't seen anything yet.

Standard Memory





Specifications

Two Page Display Format: 1920 characters arranged in 80 characters per line by 24 lines.

Screen: 12 inch diagonal, P4 Phosphor, etched faceplate.

Character Set: 128 characters.

Character Font: 7 x 9 dot matrix.

Refresh Rate: 60 Hz, 50 Hz.

Cursor: Reversed Image (Block Cursor).

Cursor Controls: Tab, Backspace, Forespace, Down, Return, New Line, Up, Home, Read Cursor, and Cursor Addressing.

Edit Operations: Clear Entire Screen, Clear Unprotected Positions, and Character Type-over, Character Insert/Delete, Line Insert/Delete, Erase to End of Page, Erase Line/Field.

Field Protect: Screen formatting of protected and unprotected fields displayed in dual intensity.

Transmission Modes

Format Transmission: Transmit format and text or text only.
Page Mode—Read from the start of the page to the cursor.
Line Mode—Read from the start of a line to the cursor.
Message Mode—Read from previous end of message.

Conversation Mode: Characters transmitted to the computer a character at a time. Half or full duplex.

Control Characters: Control characters may be transmitted to the computer and entered on the screen.

Repeat: Repeat is actuated by holding the repeat key down. Repeat rate is 15½ characters per second.

Interfaces: RS232 point-to-point or 20mA current loop. Data rates—50, 75, 110, 134.5, 150, 300, 600, 1200, 1800, 2000, 2400, 3600, 4800, 7200, 9600.
Parity—Even, odd, or none.

Transmission Options: Polling-addressing, and RS232 extension.

Optional: Serial printer port. Available modes are formatted/unformatted copy-print.

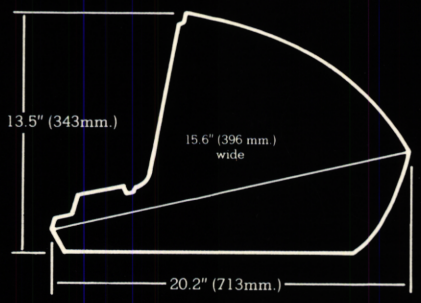
Sizes: 13.5 inches (332.9 mm) high, 15.6 inches (396.2 mm) wide, 20.2 inches (513.08 mm) long.

Weight: 32 pounds (14.4 Kg)

Power Requirements: 115 volts, 60 hertz

Optional: 230 volts, 50 hertz
240 volts, 50 hertz

Operating Environment: 5° to 55°C (41° to 122°F): 5% to 95% relative humidity, without condensation.



How To Order

The Lear Siegler ADM-31 may be ordered through any Lear Siegler sales office or distributor. Your sales representative will be pleased to discuss your application with you, and provide any additional information you may require.

Specifications subject to change without notice.

™
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Features

You get two pages instead of one.

The ADM-31 gives you two full pages of display. Not one page, as with other terminals. Because we know how much you need them. And how aggravating it can be to have your display potential limited to anything less.

Any one page has the following independent page characteristics: Protect, Write/protect, Program mode, and cursor retention. If you decide to change to another page, these attributes go back to be stored in memory. And, if you want to recall the page at a later date, the same characteristics are back, exactly as they were originally.

The ADM-31 proves two pages really are better than one.

With the ADM-31, your fields are protected.

Screen formatting of protected or unprotected fields is displayed in dual intensity on the ADM-31. A major feature of the terminal is a field protect mode.

This lets you keep information you want on the screen, at a lower intensity. And lets you constantly change variable or secondary data. You can even tab the cursor forward and backward to the start of each unprotected field.

You or the computer can designate areas on the ADM-31 to display as protected fields. These fields then appear at a reduced intensity and protected fields can't be typed over unless you remove the terminal from the protected mode.

What's more, your remote computer can't overwrite the protected fields until you remove the ADM-31 from the protected mode.

The ADM-31 behaves itself.

The ADM-31's behavior modification gives you a factory installed personality for certain selected parameters. Such as an alternate ESC sequence lead-in — in addition to the standard ESC. An End Block character. A New Line character sequence. A field separator. And even a function sequence preamble.

No one could accuse the ADM-31 of being ill-mannered.

It's all a function of your imagination.

When the special function key is operated, a special function sequence is transmitted. The sequence is SOH, followed by "any" ASCII keyboard character. And each function sequence is terminated with the RETURN code.

The remote computer has full control over the ADM-31. And all control functions which are possible from the keyboard can also be executed from the remote computer.

The computer controls the ADM-31 by transferring the appropriate ASCII codes over the RS232 or current loop interface. The ADM-31 then interprets these codes as if they originated from the keyboard.

Interfacing made easy.

You get the ADM-31 with a standard single serial asynchronous RS232C and 20mA current loop interface, compatible with bell modems 103 and 202.

You can also add an RS232 extension. This will extend all of the signal lines of the standard port, and lets you easily chain units together. All with a single option.



Or if you like, an optional RS232 serial printer interface is available. You can adapt the printer interface for various printers with a control line, either high or low—or for a built-in delay on carriage return.

Printer interfaces come in Block Mode, made from the screen memory, or in copy mode, re-transmitting all data as received.

Pick a transmission mode. Any transmission mode.

On the ADM-31, full or half duplex conversation modes are switch and keyboard selectable. Or you can use any of several modes of block transmission, that can be initiated by you or the computer. Depending on your requirements, choose from SEND LINE UNPROTECTED, SEND LINE ALL, SEND PAGE UNPROTECTED, SEND PAGE ALL, or SEND MESSAGE.

With an optional transmission feature, you can also have polling and addressing.

The ADM-31. A truly capable editor.

The ADM-31's editing capabilities allow you to clear the screen, or use a destructive cursor for a character change. Read or load cursor permits sensing of the current address, and direct, absolute addressing to any page and any x-y coordinate. The ADM-31's full controls let you skip protected fields, backspace, forespace, move up, down, return, home, and new line. And you can store the Control Characters.

In addition, the ADM-31 comes complete with character insert/delete, line insert/delete, erase to end of line/field/screen, and back tab. All standard equipment.

And through the Standard Edit option, the ADM-31 can also clear to protected spaces, clear to unprotected nulls, and set and reset copy-print.

Who says a machine can't edit?

Just as dependable as Dumb.

The ADM-31 is built with modular construction for easy access and service. And it's housed in the same, proven rugged case as our renowned Dumb Terminal.

Its display screen measures 12 inches diagonally, is of a high resolution quality, P4 phosphor with a bonded, etched faceplate.

The CRT is refreshed at 50 or 60 Hz, depending on the line frequency. Which assures that the ADM-31 gives you a sharp, crisp, stable, undistorted presentation of the entire display area.

An idea whose time has come.

You're probably thinking the smart ADM-31 is one of the best ideas to come along in quite a while. We have to agree.

So if you're in the market for a new, smart display terminal, consider the ADM-31. Then call or write Lear Siegler today.

And see for yourself why we think the ADM-31 is one smart idea.




CHAR INSERT
CHAR DELETE
LINE INSERT
LINE DELETE
LINE ERASE
PAGE ERASE
ESC
RUB
BREAK
PRINT
SEND LINE
SEND PAGE
BACK TAB TAB
RETURN
TAB
CTRL
CAP LOCK
SHIFT
LINE FEED
PAGE PREV LINE
CLEAR SPACE
FUNCTION
HOME