

LEAR SIEGLER, INC.

**ADM-42**





# The ADM-42.

## It does everything but think for itself.

Lear Siegler's ADM-42 isn't just another pretty face. Because its beauty is more than just skin deep.

It's actually a semi-intelligent terminal that provides you with flexibility of format, security, editing, interface, and transmission. And it features a full two-page display as standard equipment, not as an option. That means the ADM-42 gives you double the display potential of terminals costing up to twice as much. Now that's beauty.

What's more, when you upgrade to the ADM-42, you don't have to worry about re-writing your software, or replacing any of your other peripherals. Because the ADM-42, like all Lear Siegler products, is upward compatible. Just plug it into the system you've been using all along. You'll find the ADM-42 is an efficient, cost-effective step upward that'll enhance your system all by itself.

The ADM-42 comes with a bright, easy-to-read 1920 character display. A full 128 ASCII character set. 16 function keys for 32 separate commands. And five separate cursor control keys.

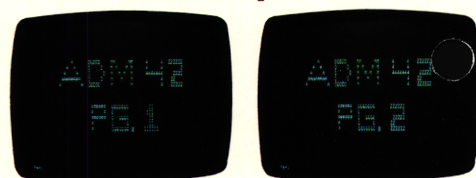
The ADM-42's status displays on the screen give you a wide range of information at a glance. Its special symbols indicate the entry of control characters in memory. All control characters can be stored using the escape sequence or program mode. And the Field Protect Mode allows rapid data entry into forms or instruction pages.

The terminal's displayed data is formatted in 24 lines per page, 80 characters per line. In addition, it comes with a 25th line established and reserved exclusively for status indicators and messages of up to 79 characters.

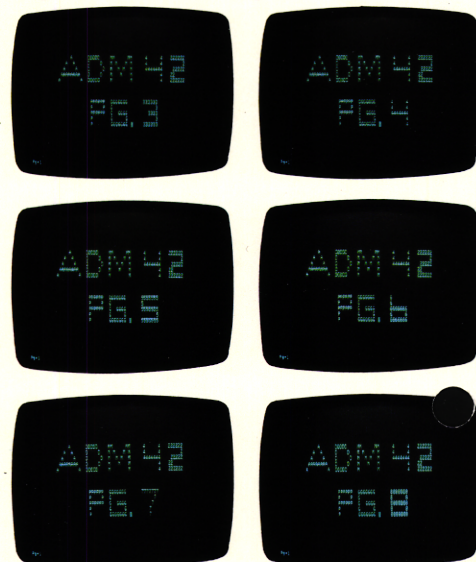
If you're currently using an ADM-42 (or any other terminal for that matter) and want to upgrade to a more capable one, check out the ADM-42. It'll let you upgrade your system with some pretty smart options. Like synchronous transmission with various line protocols. An extended memory capable of adding data space up to a maximum of 8 pages. And programmable function keys.

In fact, you'll find the more you use the ADM-42, the smarter it gets.

### Standard Memory



### Optional Memory





## Features

### When it comes to editing, the ADM-42 is almost human.

The ADM-42's cursor is a marker on its display screen that indicates the entry point for each character you type. As characters are entered, the cursor moves from left to right across the display. When you position the cursor over a character already displayed, the character appears as a reverse image within the cursor. And you can position the cursor from the keyboard or from a remote computer.

With Incremental Cursor Positioning, you can move the cursor up, down, left, or right by using the keyboard controls or the remote computer.

With Absolute Cursor Addressing, you can position the cursor by using an absolute address containing the X- and Y- coordinates of the required cursor position. In addition, the absolute address of the cursor, at any instant, can be transmitted to the computer upon request from the computer under control.

### Blanking, Blinking, and Reverse Fields. The ADM-42's 'em all.

An additional special capability of the ADM-42 is Field Blanking/Underline. You or the computer can designate

areas of the display as blanked fields, and the designated areas are then blanked from the display. Or if you like, an Underline attribute may be substituted for Field Blanking by switch control.

With Field Blinking, you or the computer can designate areas of the display as reverse images. These areas of the display will then reverse on and off.

And with Reverse Field, you or the computer can designate areas of the display as blinking fields. These areas of the display will then blink on and off.

### The ADM-42 gives you three ways to TAB.

The ADM-42 offers you three methods of performing tabbing operations.

With Tab 1, if the PROT MODE (Protect Mode) is set, operation of the TAB key (or the TAB key on the numeric key pad) moves the cursor forward to the first unprotected character position following a protected field.

Tab 2 is a modulo tab, where the modulus may be any number from 1 through 79. It can be set by an ESC sequence command.

Tab 3 is a columnar tab equivalent to that on a typewriter which can be set in any column at random locations. Tab clearing is easy, all at once or one at a time. When modes are changed type 3 tab stops are saved.

### We've got your fields protected.

The ADM-42 lets you or the computer designate area of the display as protected fields. These fields then appear at a reduced intensity. Protected fields can't be typed over, or overwritten by the remote computer, unless you first remove the terminal from the PROT (Protect) Mode.

### 16 Function keys do the work of 32.

The ADM-42 has 16 keys assigned to initiate specific functions external to itself. And the SHIFT key sets up the use of alternate codes, giving you an actual total of 32 special functions. Function transmission isn't disabled by keyboard lock, and doesn't affect the contents of your display screen. Operation of one of the keys causes the transmission of a three code sequence:





# Specifications

**CRT**  
 15" diagonal  
 P4 Phosphor with non-glare faceplate  
**Displayed Character Set**  
 128 character ASCII upper and lower case alphabet and control characters. 25 lines by 80 characters per line. Dual Intensity. Blinking Fields. Blanking Fields. Protected Fields.

**Character Font**  
 7 x 9 Dot Matrix

**Refresh Rate**  
 50 Hz or 60 Hz, depending on line frequency.

**Keyboard**  
 26 letter alphabet with upper and lower case.  
 Numeric 0 through 9  
 Punctuation break  
 Rubout (Del)

**ADM Functional Control Keys**  
 Clear Space, Clear Null, Page Edit, Char Insert/Insert Mode, Char Delete, Line Insert, Line Delete, Line Erase, Page Erase, Tab/Back Tab.

**Numeric Key Pad:**  
 0 through 9-, CR TAB (15 keys) not affected by shift or control.

**16 Function Keys**  
 When operated cause function sequence transmissions. SOH followed by a letter code. With Shift Key operated SOH followed by a lower case letter code.

**Character Set:** All 128 codes of the ASCII 7-bit code can be generated by the keyboard through use of combination of CTRL, SHIFT.

**Terminal Status Displays & Mode:**

- Page #
- Protect
- Write Protect
- Keyboard Lock
- Duplex
- Insert Mode
- Program Mode
- Page Edit Mode
- ADM1 Mode
- Printing

**Edit Operations Remote:**  
 "ESC" "Second Code" for any of the operations from keyboard.

**Edit Operations: Keyboard**

Page Edit/Line Edit	Clear Space
Insert Character	Clear Null
Delete Character	Delete Line
Insert Line	Erase Line

**Formatting Aids:**

- Program Mode
- Column Tab Set

**Cursor Control:**

- Left
- Right
- Up
- Down
- Home
- TAB

**Page Control:**

- Page back
- Page forward
- Blanked Field: (Security)
- Blinking Field
- Protect Field: Screen formatting of protected and unprotected fields displayed in dual intensity.

**Transmission Modes -**

- Block Transmission**
- Send Line Unprotected
  - Send Line All (Shift)
  - Send Page Unprotected
  - Send Page All (Shift)
  - Send Message Unprotected
  - Send Message All (Shift)
  - Send Cursor Coordinate
  - Send Function Sequence

**Conversation Mode**

- Conversation Mode/Half Duplex
- Conversation Mode/Full Duplex
- Dynamic Control of Block/Conversation and Duplex modes from remote or keyboard.

**Asynchronous Baud Rates:**  
 50, 75, 110, 134.5, 150, 300, 600, 1200, 1800, 2000, 2400, 3600, 4800, 7200, and 9600.

**Options:**

- Alternate 128 character set
- Serial RS232 Printer Interface
- Parallel Printer Interface
- Parallel Internal System Bus Interface
- Communications Protocol
- Additional data memory up to 6 additional pages
- Buffered Printer Interface
- Programmable function keys
- Composite video
- RS232 Synchronous interface
- Special keyboard layouts
- Special character generator
- Line drawing set
- Key Locks
- Remote Monitor Stand

# Physical Specifications

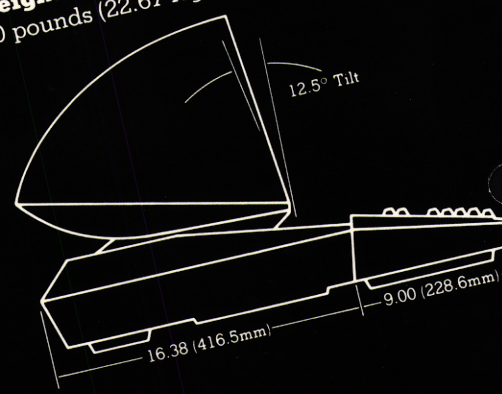
**Power Requirements:**

- 115 volts 60 hertz
- Optional: 230 volts, 50 hertz
- 240 volts, 50 hertz

**Dimensions:**

- Width: 18.88 (480.0 mm)
- Depth: 25.38 (645.1 mm)
- Height: 18.00 (457.2 mm)

**Weight:**  
 50 pounds (22.67 Kg)



# How To Order

The Lear Siegler ADM-42 ordered through any Lear Sales office or distributor. Your representative will be pleased to discuss your application and provide any additional information you may require. Specification subject to change without notice.



**Lear Siegler, Inc.**  
 Data Products Division  
 714 North Brookhurst  
 Anaheim, California  
 (714) 774-1010 (800)  
 TWX 910-591-1157



1. SOH (this can be specified at manufacture time optionally to any ASCII character.)
2. ASCII alphabet code (@ through 0) and with shift ' through 0.

3. CR (this can also be specified at manufacture time optionally to any ASCII character.)

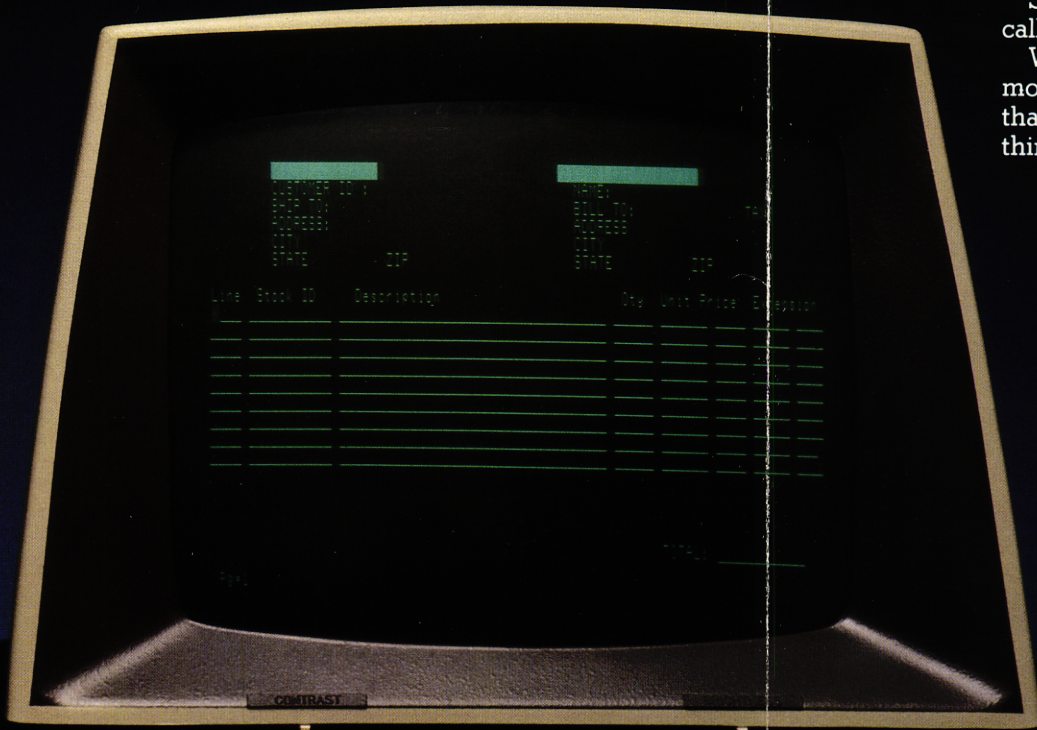
You can also order an optional Programmable Function Key feature that lets you define the function keys with a message of 31 or 63 characters to be transmitted, displayed or sent to the printer.

**The intelligent choice for a smart terminal.**

The ADM-42, then, is a semi-intelligent terminal designed for a host of computer-related tasks. It has just about everything. Including a micro-processor that not only increases the ADM-42's reliability, but makes it easier to use. Any way you look at it, the ADM-42 is one smart buy.

So if you need an intelligent terminal, call or write to us today.

We'll show you how easy it is to move up to the ADM-42. The terminal that's so smart, it does everything but think for itself.



ADM-42 shown with optional monitor stand allowing control unit to be conveniently located inside a desk or other location.







Function keys: FN, PAGE FWT, PAGE BWT, CLEAR SPACE, CLEAR WBL, POST MODE, WRITE PROT, CHAR INSERT, CHAR DELETE, LINE INSERT, LINE WDELETE, LINE ERASE, PAGE ERASE, RESET SWP, BREAK, SOW, ESC, SEND MSG, PRINT, SEND LINE, SEND PAGE.

Keyboard keys: CTRL, CAP LOCK, SHIFT, Q, W, E, R, T, Y, U, I, O, P, L, K, J, N, M, Z, X, C, V, B, A, S, D, F, G, H, J, K, L, ;, ', ~, ^, @, \*, &, ?

Bottom keyboard keys: RETURN, LINE FEED, SHIFT, NEW LINE, HOME, CLR TAB SET, PAGE BACK, PAGE FWD, TAB, 7, 8, 9, 4, 5, 6, 1, 2, 3, 0, ., /, &lt;math>Z</math>