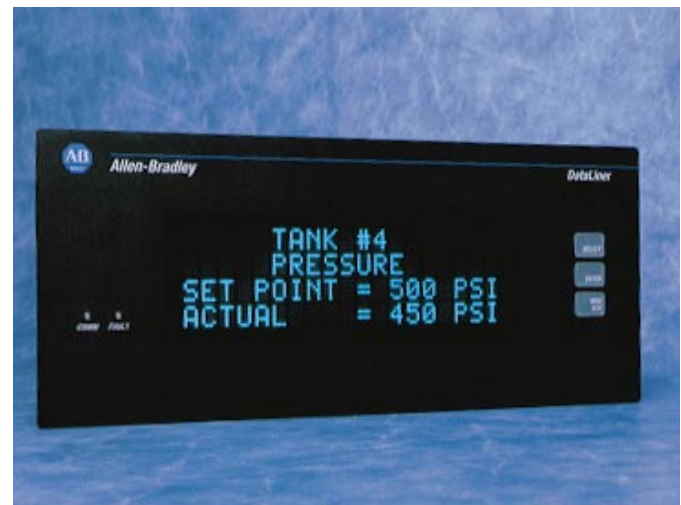
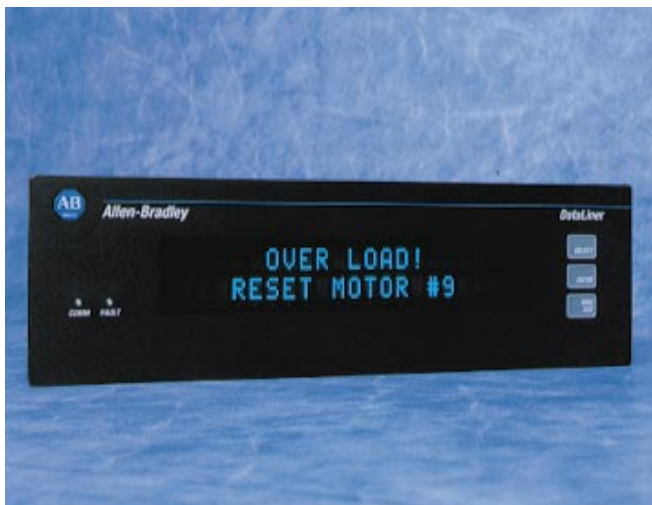


## Dataliner™ DL40 Plus Message Display Terminals

### Product Profile



### Next Generation

The Dataliner DL40 Plus message displays represent the next generation of Allen-Bradley message display terminals. Engineered to provide OEMs and end users a migration path from their older Dataliner products to newer technology, the new DL40 Plus carries a host of hardware and feature enhancements — all in a smaller, more cost-effective package than before.

### Enhanced Functionality

The new DL40 Plus message displays do things no other Allen-Bradley message display has been able to do before. Things like concurrent RS-232 and RS-485 communications for message triggering in both point-to-point and network configurations. Direct connectivity to Allen-Bradley PLC®s and SLC™s via the Channel 0 ports. And enhanced slave message display application support. Finally, the two- and four-line vacuum fluorescent displays (VFD) support English, Cyrillic and International character sets.

The new DL40 Plus is also available as a slave-only terminal, connecting directly to other serial devices including PanelView™ operator terminals, for enhanced alarm capabilities on the factory floor.

### Rugged Hardware

As with all Allen-Bradley products, the new DL40 Plus is wrapped in a tough-as-nails package. Enhancements include increased user memory — 128K in all units, a new, brighter VFD display with adjustable brightness from 0 to 100%, a real-time clock that is Y2K compliant and comes with a replaceable battery, and optically isolated I/O ports. Believe it or not, we've even managed to use fewer components to accomplish all this. That means more reliability in a smaller, lighter enclosure.

## Specifications

<b>Display Characteristics</b>	
Character height	11.3mm (0.44 in.)
Character set	Standard and extended ASCII Standard and Cyrillic (Russian) International ISO-8859-1
Characters per display line	20
Approximate viewing distance	7.62m (25 ft.)
Character type	Vacuum fluorescent, 5x7 dot matrix characters, filtered to blue/green color
Display luminance	Adjustable 0 to 100% brightness level
<b>Electrical</b>	
Input voltage	100-240VAC, 50-60Hz, 0.60-0.25A
Input power	60VA
Fuse type	Internal sealed (not user replaceable)
Annunciation relay	One normally open contact
AC Resistive load	3A @ 240VAC
DC Resistive load	3A @ 30VDC
<b>Serial Communication Ports</b>	
Direct connection—single point	RS-232 - EIA/TIA-232-E 15.2m (50 ft.)
Network connection—multi-drop	RS-485 - EIA-485 1219.2m (4000 ft.)
Communication rate	300, 1200, 2400, 4800, 9600, 19200k bits/s
Data format	7 or 8 data bits—odd, even or no parity
<b>PLC Remote I/O Communication Port (Remote I/O versions only)</b>	
Communication rate	57.6, 115.2, or 230k bit/s
Maximum I/O cable distance	2800m (10,000 ft.) for 57.6k bits/s 1400m (5000 ft.) for 115.2k bits/s 700m (2500 ft.) for 230.4k bits/s
Rack sizes	1/4, 1/2, 3/4, or 1 (any starting module)
Data transfer type	Discrete I/O or block transfers
<b>Parallel Input Communication Port (parallel versions only)</b>	
	0 to 24VDC
Logic low	<u>High true logic</u> <u>Low true logic</u> 0 - 0.8VDC                              3.5 - 24VDC
Indeterminate	0.8 - 3.5VDC                              0.8 - 3.5VDC
Logic high	3.5 - 24VDC                              0 - 0.8VDC
Data lines	16 data lines, plus 4 strobe lines
Input current	8mA per data line @ 12VDC
Output supply	12VDC output voltage source provided 200mA maximum
<b>Keyboard Port</b>	
IBM PC XT, AT compatible	Standard personal computer keyboard
Connector	8-pin DIN (large style connector)
<b>Environmental</b>	
Operating temperature	0 to 60°C (32 to 140°F)
Storage temperature	-40 to 85°C (-40 to 185°F)
Humidity	5 to 95% (without condensation)
Shock	Operating: 15g
Non-operating:	30g pulses
Vibration	Operating: 1g
Non-operating:	2.5g sinusoidal
<b>Mechanical</b>	
Enclosure type	UL listed for NEMA type 12, 12, 4, 4X (indoor use only) when mounted in a suitable enclosure of type 12, 13, 4X, IP65, or IP54 Class 1, Div. 2 groups A, B, C, D hazardous locations UL, cUL, Class 1 Div. 2, CE marked
Approvals	
Approximate shipping weight:	
Cat. Nos. 2706-LV2P, -LV2R (two line)	1.7kg (3.7 lbs.)
Cat. Nos. 2706-LV4P, -LV4R (four line)	2.2kg (4.9 lbs.)

Dataliner, SLC and PanelView are trademarks of Rockwell Automation. PLC is a registered trademark of Rockwell Automation.