



WJ-9040 DLP100 DATA LOGGER AND PRINTER



FEATURES

- Microprocessor controlled thermal printer
- 96 ASCII characters
- Two switch selectable printing directions, above or below the previous line
- Out-of-paper indicator
- Self-test capability

DESCRIPTION

The WJ-9040 DLP100 Data Logger and Printer is a one quarter width unit. The printer logs and prints data received via its RS-232/C bus. The printer may be driven directly from a customer furnished device over an RS-232/C bus, or from the DIO 232 RS-232 board located in the WJ-9040 IOM108 I/O module. Use of the IOM108 in the latter configuration disallows remote control of both the printer and other modules located in

the equipment frame. However, control of the printer via the IOM108 allows for automatic logging of frequency, time of day, signal strength, and DF bearing information when used with certain WJ-9040 configurations and applications software.

The printer is capable of printing 96 alphanumeric characters in 20 columns and six special symbols including: omega, micro, degrees, overload, high alarm, and low alarm. A dot matrix of 5×7 is used to print with extension to 5×9 for lower case letters with descenders. The self test mode prints five different patterns to verify proper printhead and drive circuitry operation.

The microprocessor has a two line, 41 character input buffer to provide storage for bursts received at higher than the allowable average print rate of 30 characters per second. An out-of-paper condition will halt further input until paper is reloaded and the front panel "Print" pushbutton is activated preventing loss of data.

SPECIFICATIONS

Printout:

Format	Twenty (20) columns of 5 × 9 dot matrix characters
Characters Printed	Full ninety six (96) characters ASCII set, plus six (6) special characters: omega, micro, degrees, overload and high/low alarms
Character Spacing	Nine (9) characters per inch
Character Size (W × H)	0.08 inch × 0.12 inch
Line Spacing	5.7 lines per inch
Print Rate	1.6 lines per second at 60 Hz 1.3 lines per second at 50 Hz
Print Intensity	Potentiometer adjustable through rear panel

Paper:

Type	3M paper (black characters) or T1 thermal paper (blue characters)
Lines/Roll	12,500 lines
Time/Roll	2.1 hours minimum

Print Mechanism:

Printhead	20-column array of solid state single-crystal silicon mesas.
Paper Motion	Stepper motor with gear reduction and friction roller. A line may be viewed immediately after printing.
Paper Out	Printing stops and paper-out indicator lights.

Controls:

Front Panel	POWER-ON Indicator, PRINT pushbutton, FEED (Paper Advance) pushbutton and PAPER-OUT Indicator.
Front Sub-Panel	Baud Rate, Parity, Auto L/F and Run/Test
Main Circuit Board	Data/Text, Word Length
Input/Output Signal Levels	RS-232/C compatible
Input/Output Connector	25-pin D Series Sub-miniature Male Connector
Operating Power	115/230 VAC ± 10%, 50/60 Hz*
Power Consumption	6 watts (idling) 18 watts average (printing)
Size	5.2 inches high, 4.0 inches wide and 14.38 inches deep
Weight	5 lbs. approximately

*AC input voltage range must be specified by customer at time of ordering:

Standard Option is 115 VAC ± 10%, 50 or 60 Hz
Alternative Option is 230 VAC ± 10%, 50 or 60 Hz