

DATA SHEET . . .

Model 3100 Plotter Control

The Model 3100 Plotter Control is a powerful, Motorola 68000-based microprocessor control. The 3100 comes standard with a 12-inch video display terminal and ASCII keyboard for entry and display of system parameters; a 5¼-inch floppy disk drive for program loading; and a convenient hand-held operator control panel. GSI's most versatile control, the Model 3100 can be configured with a wide range of GSI pen and photoplotters.

Powerful

- Equipped with the Motorola 68000, the 3100 Control comes with 256K bytes of memory. This allows for input data buffering and look-ahead processing for automatic acceleration and deceleration, resulting in optimum traversing speed and maximum plotter throughput.
- Linear, quadrant circular, and 360° circular interpolation of incremental and absolute data in EIA RS-274-D format are standard; parabolic/cubic interpolation is available.

- Multiple plot queuing allows the operator to plot up to 16 separate plot files, each with its own offset, without operator intervention.
- Automatic dash line generation, data scaling, mirroring, windowing, and on-board stored symbols are capabilities of the 3100 Control.

Versatile

Extensive data input formats -- (choose 1, 2, or all 3 of the following)

- Gerber 400 Format (EIA RS-274-D)
- Gerber 500 Format
- Gerber Extended Binary

On-Line or Off-Line, or both -- (choose 1, 2, or all 5 of the following data input modes)

- Paper Tape Input
- 9 Track 800/1600 bpi Magnetic Tape
- 8 bit Parallel or 16 bit Parallel Interface
- RS-232-C Serial Interface
- IBM Series 1 Interface



Ease of Operation

System Parameters may be changed via operator's console as far as 25 feet from the plotter. Using the following commands, the operator controls these system operations:

- Acceleration Limit
- Aperture Offset
- Aperture Velocity (OEH-F)
- Axis Select
- Block Delete
- Dashed Line
- End of Block Character
- File Search
- Format Statement
- Input Code
- Input Data Display
- Input Device
- Load Symbol
- Mirror Image
- Mode
- Offset
- Optional Stop
- Scale Factor
- Sequence Number Start
- Sequence Number End
- Symbol Mirror
- Symbol Scale
- Table Position
- Tape Position
- Tool Delays
- Velocity Limit

Hardware Options

- Console Display Terminal with Integral Thermal Printer
- Desk Top Enclosure
- 800/1600 bpi Mag Tape Unit
- Paper Tape Reader/Handler
- Parallel Interface/100 foot Cable
- Series 1 Interface/100 foot Cable
- RS-232 Interface/50 foot Cable
- Plot Preview Station

Software Options

- 500 Format
- Extended Binary Format
- Plot Queuing
- Parabolic/Cubic Interpolation

Backed by over 25 years of practical, production experience, The Gerber Scientific Instrument Company has established a world-wide reputation for manufacturing reliable, high-quality drafting systems. The precision plotters, the accessory heads that make them so versatile, and the powerful plotter controls more than satisfy the size, speed, and throughput requirements of every precision plotting application. Electronic, aerospace, shipbuilding, cartography, architectural engineering, and the automotive industries all benefit from the experience and expertise that Gerber builds into every system.

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