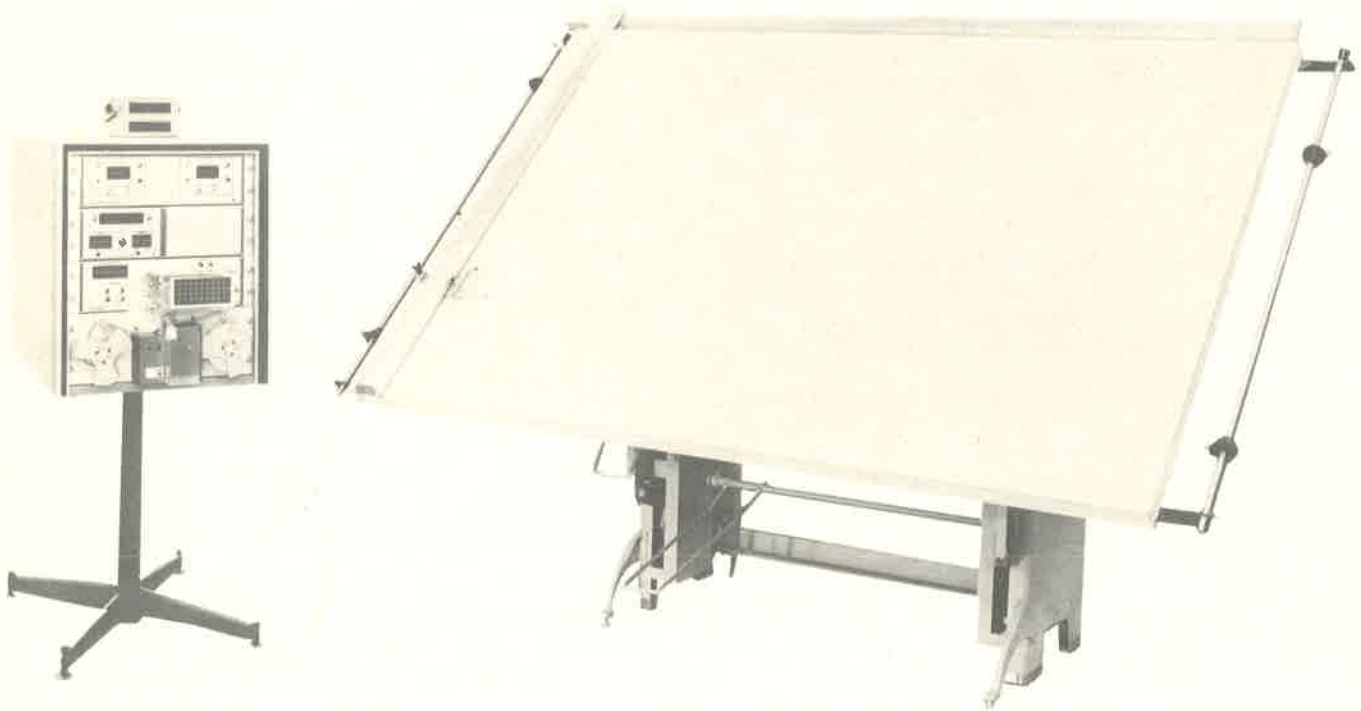


BROOMALL INDUSTRIES

DIGITIZING SYSTEMS

Model 55-R



FEATURES

- Full integrated circuit construction
- Remote Displays
- Absolute and incremental output
- Full scale zero offset with preset
- Output scaling
- Variable word length formatting
- Code compatible to standard output devices
- Automatic readout
- Multiple output
- Keyboard entry into output word

APPLICATIONS

The BII Model 55R Digitizing System measures and automatically records (on card punch, flexowriter, teletypewriter, paper tape punch or magnetic tape writer) sequentially numbered points of X-Y coordinate data. Some specific applications include the accurate digitizing of:

- Engineering drawings
- Circuit Layouts
- Pattern and template grading
- Road Mapping
- Contouring
- Property Layouts
- Architectural drawings
- Numerical control tape preparation

DESCRIPTION

The BII Model 55R Digitizing System is designed for high speed data reduction applications. It has complete formatting flexibility, provided through a unique patchboard system that complements individual computer requirements and allows variation in word length. Coordinate data is presented on a 5-digit (per axis) "nixie" display. The display is mounted in a lightweight box and attached to a 20 ft. cable enabling convenient and flexible operation. A standard 48" x 60" Digitizing Table is provided with each system. The table is constructed of rugged formica, is adjustable from full horizontal to full vertical positions, and features magnetic paper hold down.

The 55R accepts data from two photoelectric encoders, stores the data in memory, decodes the data and presents it in inches of travel (.001 resolution) to the system patchboard. The data is accepted in parallel (everything at once) and presented sequentially (one at a time) to the output recorder. The data is sequenced in accordance with the program format of the patchboard. The 55R contains all of the controls necessary to record coordinates and identification information, and to activate special features of the output recorder.

OPTIONAL FEATURES

GRID ROUND OFF — Allows operator to select desired round off factors in accordance with grid base being digitized. Grid base values are .010 thru .999 inclusive. Independent gridding for each axis is standard with this option.

CONSTANT DATA ENTRY — 10 thumbwheel switches for inserting fixed data into the output word. Numeric or Alpha-numeric.

ADDITIONAL SCALING — Allows infinite scaling capability — independent in each axis.

KEYBOARD — For inserting variable data into the output word. Numeric or Alpha-numeric.

EVENT COUNTER — For sequencing data points.

AUTO RECORD — Allows operator to determine distance between readouts and have them recorded automatically without depressing readout button at any desired point.

MULTIPLE OUTPUT — Allows interface to customer selected second output device.

STANDARD SPECIFICATIONS

Reading Area:	48" x 60"
Reading Accuracy:	± 0.005 point to point anywhere on digitizing surface.
Output Recorders:	Customer supplied card punch flexowriter, teletypewriter or BII supplied papertape punch or magnetic tape writer.
Output Scaling:	¼, ½ and unity.
Remote Visual Readout:	5-digits (2-3 format) "nixie" display and readout, and a sign for each axis.
Format Control:	Removable patchboard allows variable format for specific applications. All 80 columns of a standard punched card may be programmed at one time.
Resolution:	1000 counts per inch (0.001)

MECHANICAL SPECIFICATIONS

Size:	Table: 75" to 85" high, 87.5" wide, 65" deep Control Unit: 48" high, 24" wide, 24" deep
Weight:	Table: 350 lbs. approx. Control Unit: 100 lbs approx.
Power:	115VAC ± 10%, 60 cps, 100 watts
Environment:	Office atmosphere