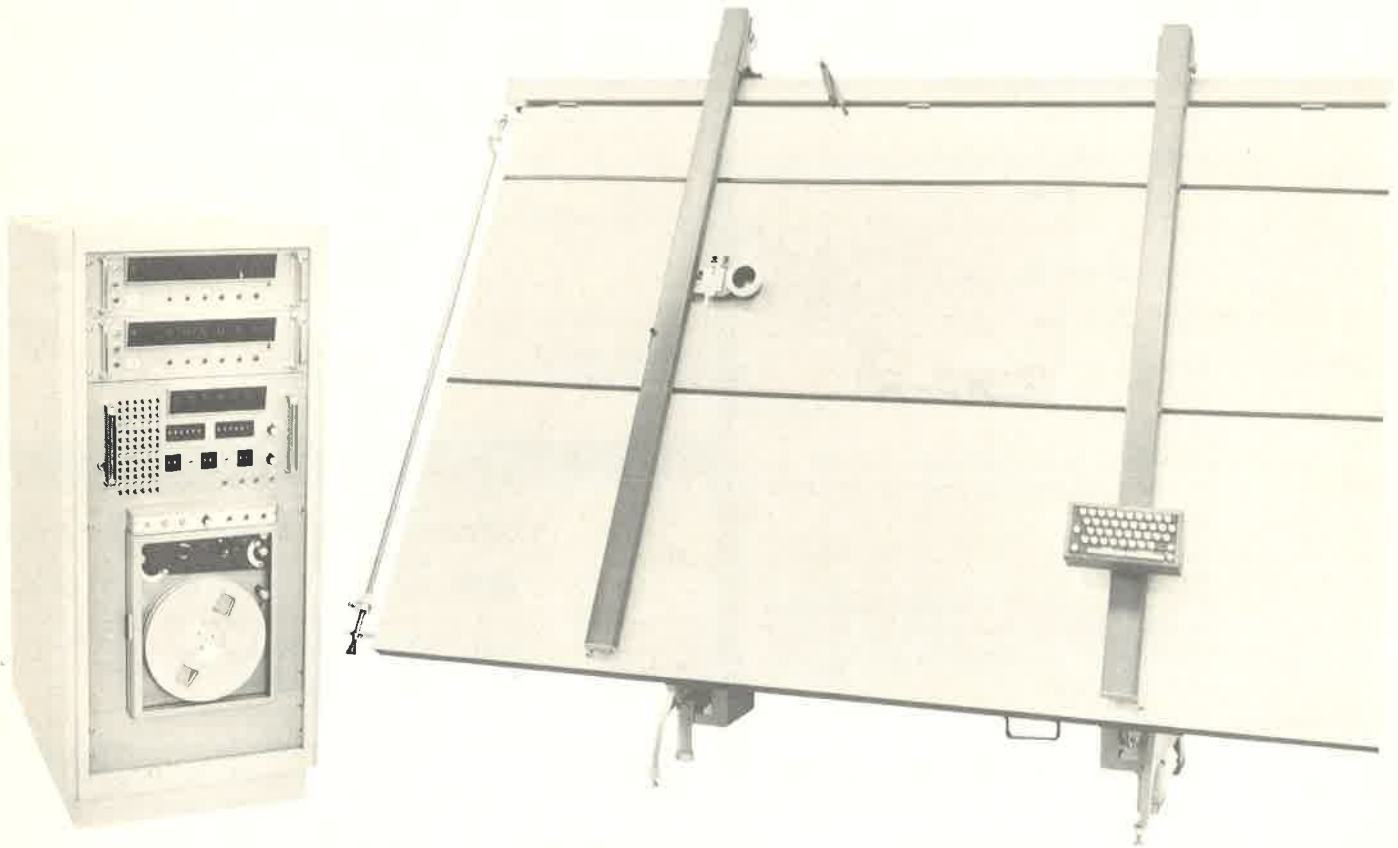


# **BROOMALL INDUSTRIES**

**DIGITIZING SYSTEMS**

**Model LARR-M**



**LARR-M** — designed for high production data reduction requirements — features complete system flexibility including many unique features engineered to accent operating convenience.

Demand readout allows the operator to set resolution — 01 to 99 counts in each axis — to the data being read. Readout is actuated as either axis is moved a predetermined count.

Computer compatible output is generated on seven-track, 556 bpi magnetic tapes via the integral tape transport. Utilizing the flexible format capabilities, it is also possible to achieve up to 25 readouts per second.

Complete formatting flexibility is provided through the system patchboard. Formats to complement individual computer requirements as well as to provide variable word length is made possible through the patchboard.

Alphanumeric keyboard manual input controls include IRG, Tape Mark, as well as other operating controls.

## **FEATURING**

- 556 bpi, 300 character per second output.
- Variable word length format flexibility.
- Six-digit event counter.
- Demand readout stylus follower.
- Alphanumeric keyboard
- Flexible editing controls.

**STANDARD FEATURES**

**OPERATING FEATURES**

**reading area** 48" x 60" usable area. Accepts paper in all sizes to 54" wide.

**reading accuracy** ±0.010" from any point to any point, straight line or contour digitizing.

**output** to IBM compatible 1/2-inch 7-track 556 bpi magnetic tape. 300 characters per second.

**resolution** 250, 500 or 1000 counts per inch with the 15A Magnetic Read Head.

**visual readout** 6 digit display and readout (Nixie), indicating the sign and 6 digits in each axis.

**storage** ±999,999 in each axis.

**counting rate** 50,000 counts per second.

**identification** 12 sets of fixed data digit switches are provided for entering fixed alphanumeric data.

**stylus** a pencil follower is provided for digitizing contours or other line segments. Readout resolution is controlled by the demand readout feature.

**cursors** full radius, 2x magnification of crosshairs permits fast, accurate point digitizing.

**paper hold down** fully adjustable magnetic paper hold down to accommodate entire digitizing area and all paper sizes and types.

**alphanumeric keyboard** alphanumeric keyboard contains the complete alphabet, the numerals 0 thru 9, space, punctuation marks, IRG, tape mark.

**format control** removable patchboard mounted in rear of system allows a variable format for specific applications.

**event counter** 6 decade event counter capable of being advanced after each write cycle by any number of counts from 1 to 99.

**demand readout**

demand readout (auto-write) for both X and Y axis is provided. 2-decade control provides independent resolution for X and Y. Readout is actuated upon reaching a preset movement of either axis.

**multiplier switch**

event counter may be advanced any number of counts from 1 to 99 through the use of two thumbwheel multiplier switches.

**offset switches**

six thumbwheel switches are provided to reset the event counter to a pre-selected number.

**preset switches**

a bank of six thumbwheel switches may be preset to a given number. When coincidence is reached between the event counter and the preset number, the event counter is automatically reset to the number contained in the offset switches.

**preset select switches**

Selects the event to be performed at the coincidence of the event counter.

**MECHANICAL SPECIFICATIONS**

**size** **TABLE** 75" to 85" (adjustable) tall, 87.5" wide, and 65" deep.  
**282M:** 53.5" tall, 23" wide, and 29.5" deep.

**weight** **TABLE** 350 pounds approx.  
**282M:** 450 pounds approx.

**table top** digitizing surface may be used as vertical or horizontal reader (0° thru 90°)

**table surface** white Formica top with alignment indicators to facilitate paper positioning.

**color** light blue with gray trim.

**environment** +40°F to +80°F.

**power requirements** 115V ±5V, 60 cycle, single phase 750 watts.

**OPTIONAL FEATURES**

**resolution** 100, 200 or 400 counts.

**viewing screen** 24" backlighted viewing screen.

**film projection** projector with capability to accept 16, 35, or 70mm film.

**WARRANTY** All Digitizing Systems include installation by a factory trained field engineer and a 90 day warranty from date of installation.