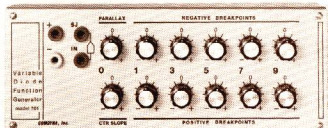


MODELS 701 AND 709

VARIABLE DIODE FUNCTION GENERATORS

MODEL 701

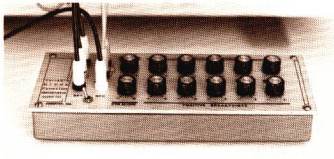
fixed breakpoints, adjustable slopes



The 701 is the easy-to-set diode function generator that can be used with any 10 volt analog computer or related system. Just patch it to your computer and it's ready to generate arbitrary functions. Eleven straight line segments approximate non-linear curves. Included standard is an internal inverter amplifier that lets curve segments have either positive or negative slopes. Arbitrary functions are generated over a full four quadrants. The 701's easy to set features and low cost makes the unit excellent for student instruction.

... \$ 165

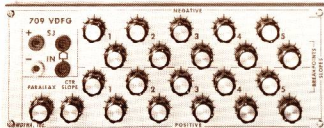
... JUST PATCH TO YOUR SYSTEM



The VDFG is programmed by connecting it to the summing junction of a high gain operational amplifier. When this amplifier has a resistor feedback, the VDFG function appears as its output. Functions are conveniently set through use of an oscilloscope display or XY plotter. For setting functions, a negative to positive ramp is made the input. (This ramp is available as the normal Comdyna GP-6 time base sweep, or it may be programmed on other computers.) If the sweep is the ordinate and the VDFG amplifier output is the abscissa, the read-out display will show the input/output curve. In setting the function, first the parallel is adjusted to establish the curve's position at the Y axis. Next, the center slope is set. Other segment slopes are then set sequentially from the zero position. When the desired function is displayed, the sweep is replaced by the program input and the VDFG is ready for operation.

MODEL 709

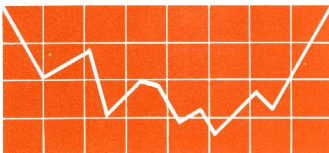
adjustable breakpoints, adjustable slopes



Similar in operation to the 701, the 709 VDFG expands the range of function generation through use of both variable breakpoints and variable slopes. The eleven curve segments are provided as five positive and five negative breakpoints. Each may be adjusted to any point within the full 10 volt range. As with the 701, an internal inverter amplifier is provided so that individual segments may be of either positive or negative slope. Any number of 709 units may be slaved together for 21 or more segment curve approximation.

... \$ 205

FOR ARBITRARY NON-LINEAR FUNCTIONS



SPECIFICATIONS

Number of Segments	11
Segment Slope (Typical w/50K feedback)	±3 v/v
Parallel Adjustment	±10v
Power Requirements	plus & minus reference (10 to 15v)
Physical Dimensions	9 ³ / ₁₆ x3 ¹ / ₂ , 9 ³ / ₁₆ x3 ¹ / ₂ x1 ¹ / ₂



COMDYNA, Inc.

COMPUTERS FOR DYNAMIC ANALYSIS

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