

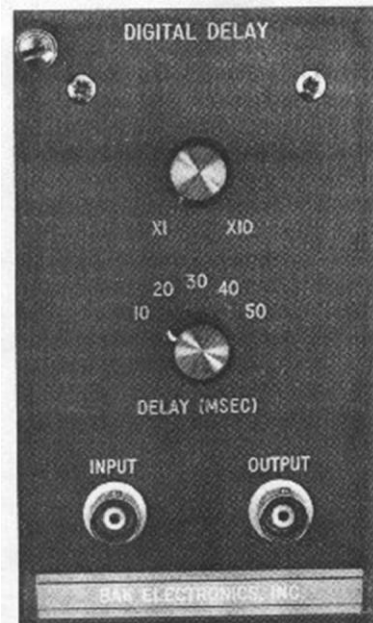


**BAK ELECTRONICS, INC. *Biomedical Instrumentation***

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## *Digital Delay*

### **Model DD- 1**



10-500 MSEC CONTINUOUSLY VARIABLE DELAY TIME

300 PPS RESOLUTION MINIMUM

AUTOMATICALLY LATCHES ON BRIEF EVENTS, LEADING EDGES

### ***Description:***

The Model DD-1 is an instrument for delaying digital signals from 10 to 500 msec (other ranges may be specified). The Model DD-1 is an edge-triggered device employing an expandable static shift register to achieve delays of up to 500 msec while maintaining a data acquisition rate of greater than 300 Hz without bit information drop-out.

This feature makes the Model DD- 1 ideal for delaying recognition of spike events to a computer system for other interrogations or post event conditions before acceptance. The front panel provides a five position delay range switch and a variable delay control for continuous resolution of delay time. It also provides BNC connectors for input and output functions which are TTL compatible.

The Model DD- 1 is of modular construction with a blue anodized and engraved front panel and slides easily into the Model RP-I rack mount power supply module cage system.

## ***Specifications:***

Input Impedance	1 TTL UL
Input Coupling	DC
Input Voltage Range	TTL compatible (Zener protected)
Input Pulse Requirement	Edge triggered, automatic latching
Output Pulse Duration	1 msec (nom.)
Output Drive	10 TTL UL
Output Polarity	POS. TTL TRUE LOGIC
DIGITAL DELAY	10 msec increment ranges continuously variable 10-500 msec
Power Requirements	+5 volts supplied by the Model RP-1
Size	2.8"w x 5.25"h x 7.25"d
Weight	1 lb.

## ***Other BAK Equipment frequently used with DD-1:***

DDIS-I Dual Window Discriminator  
DIS-I Window Discriminator  
RG-1 Raster Stepper

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