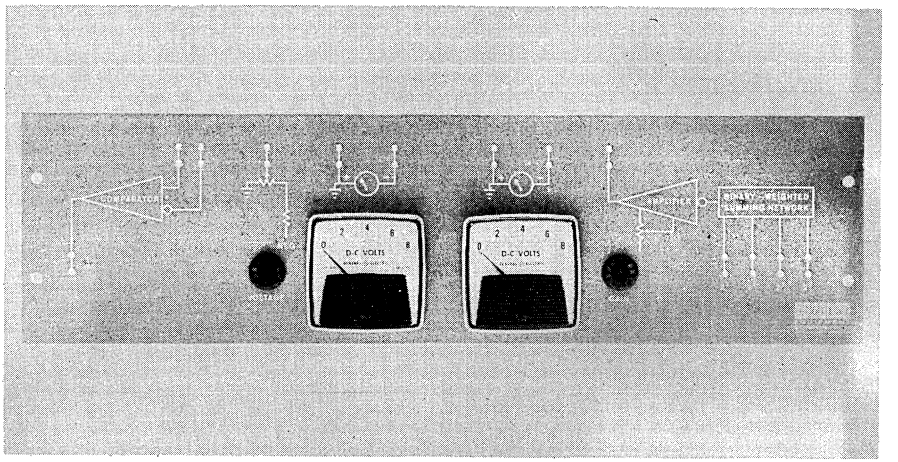
# ANALOG-DIGITAL PANEL
## TYPE H903

**LOGIC LABORATORY COMPONENTS**




This panel provides facilities for experimenting with analog-digital techniques. It contains a 4 bit variable output D-A converter and a comparator circuit. Also includes two 8 volt panel meters and a potentiometer for producing 0 to —8v test signal. Connections to these devices are made with Type 911 Stacking Banana-Jack Patchcords.

### ELECTRICAL CHARACTERISTICS

D-A CONVERTER ZERO OFFSET: ±0.4v or less

LINEARITY: ±3% of full scale

ALL ONES OUTPUT (FULL SCALE): adjustable from —7v to —8v driving 3000 ohm load

D-A CONVERTER OUTPUT IMPEDANCE: typically less than 100Ω

COMPARATOR OFFSET: ±0.2v or less

COMPARATOR INPUT CURRENT: typically less than 100 μa.

INPUT VOLTAGE OPERATING RANGE: 0 to —10v

INPUT: D-A converter inputs each require 1 ma at ground. No load at —3v.

OUTPUT: D-A converter output may be shorted to ground accidentally without harm. Comparator output supplies up to 8 ma at ground; 1 ma at —3v. Because the inputs may pass through the switching region slowly or hesitantly in most A-D converter applications, the comparator output transition is not suitable for driving DCD gate pulse inputs.

**POWER:** +10 v(A)/8 ma; —15 v/30 ma.

### MECHANICAL CHARACTERISTICS

PANEL WIDTH: 19 in.
PANEL HEIGHT: 5-3/16 in.
DEPTH: 6½ in. with FLIP CHIP modules inserted

FINISH: DEC Blue
POWER INPUT CONNECTIONS: Tabs which fit AMP "Faston" receptacle series 250, part 41774.

H903 — $143.00