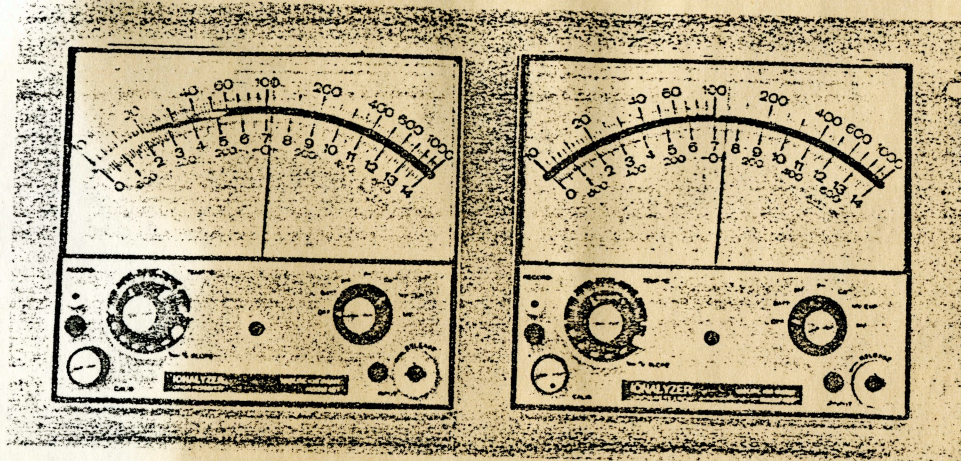


# Honeywell Biomedical

IN VIVO  
PH OR PD MEASUREMENT  
MODEL 401

## ELECTRONIC PRODUCTS



The Model 401 provides direct read-out of pH or Potential Difference (PD) with simultaneous recording on the Visicorder Oscillograph. Single or Dual channel instruments for rack mounting are available.

### SENSORS

In vivo measurement of gastro-esophageal pH required a glass electrode and a calomel reference electrode. The glass electrode (4 mm diameter X 10 mm length) with its integral flexible cable is positioned within the gastrointestinal tract at the site of interest. The calomel reference electrode is mounted in its holder and then applied to the forearm or other convenient site. Both electrodes are then connected to the Model 401 Ionalyzer; the function switch is placed in the "pH" position. For gastric pH measurements, special calibration techniques are required.

Gastroesophageal PD measurements utilize two type 40249 Silver-Silver Chloride electrodes. The technique described by Hernandez & Beck<sup>2</sup> is suggested. The two silver-silver chloride electrodes are connected to the Model 401 Ionalyzer; the function switch is placed in the "mV Expanded" position.

