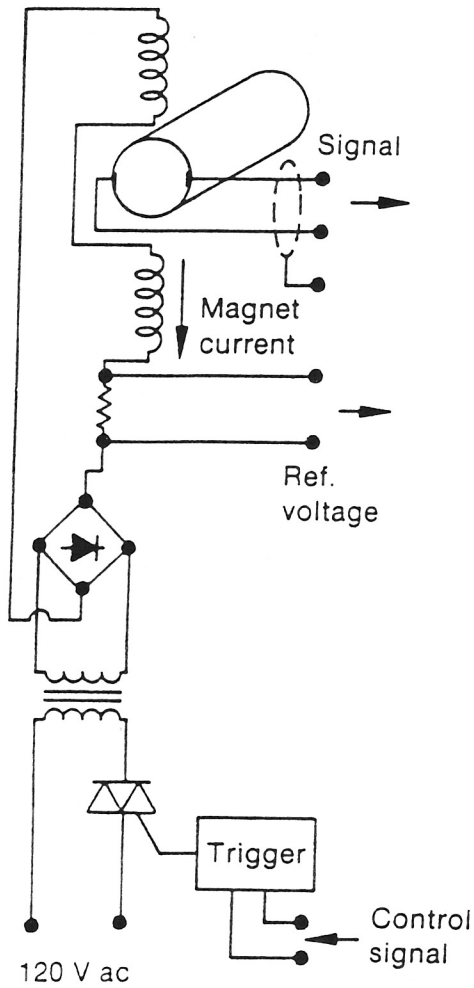
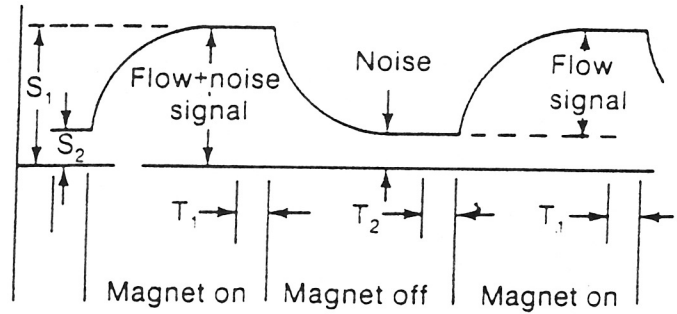


PRINCIPLE OF OPERATION



(A)



(B)

T_1 — Magnet "on" signal sampling time interval
signal voltage = S_1 (flow + noise)

T_2 — Magnet "off" signal sampling time interval
signal voltage = S_2 (noise)

Subtracting: $S_1 - S_2 =$ flow signal only

FIGURE 11-3
Typical dc magnetic flowmeter schematic.
(Courtesy Fischer & Porter Company)