Phillips 6303 RCL Meter Operating Instructions

![Image of the Phillips 6303 RCL Meter with a diagram and text explaining its features and usage.]

- **Auto Mode Decision Diagram**
  - Reactance: \( Q = 500, D = 0.002 \)
  - Inductive: \( Q = 1 \)
  - Resistance: \( Q = 500, D = 0.002 \)
  - Capacitive: \( Q = 1 \)

- **Accuracy**
  - Basic accuracy: better than ±0.25%

- **Measurement ranges and accuracy**
  - Frequency: 1 kHz fixed
  - Measurement update rate: 2 measurements per second
  - Additional notes:
    - Center segments of digits flash when:
      - Component exceeds measurement range
      - Component exceeds measurement range (\( R > 200 \, \Omega, \, C > 100 \, \mu F, \, L > 20 \, \mu H, \, Q \) or \( D > 500 \))
    - Resistances or inductances are measured with led's on
    - Discharge capacitors before connecting
    - TRIM compensates for:
      - Contact and line resistances (up to 10 \( \Omega \) in short circuit)
      - Stray capacitances in open circuit

- **Parameter Selection**
  - For SMD components use PM 9542 SMD Adapter
  - For larger components use PM 9542A RCL Adapter
  - For in-circuit measurement of components use PM 9541A Kelvin Clips Test Cable
  - For two-wire measurement plug two normal test leads into the upper connectors
  - Drive 'X' -