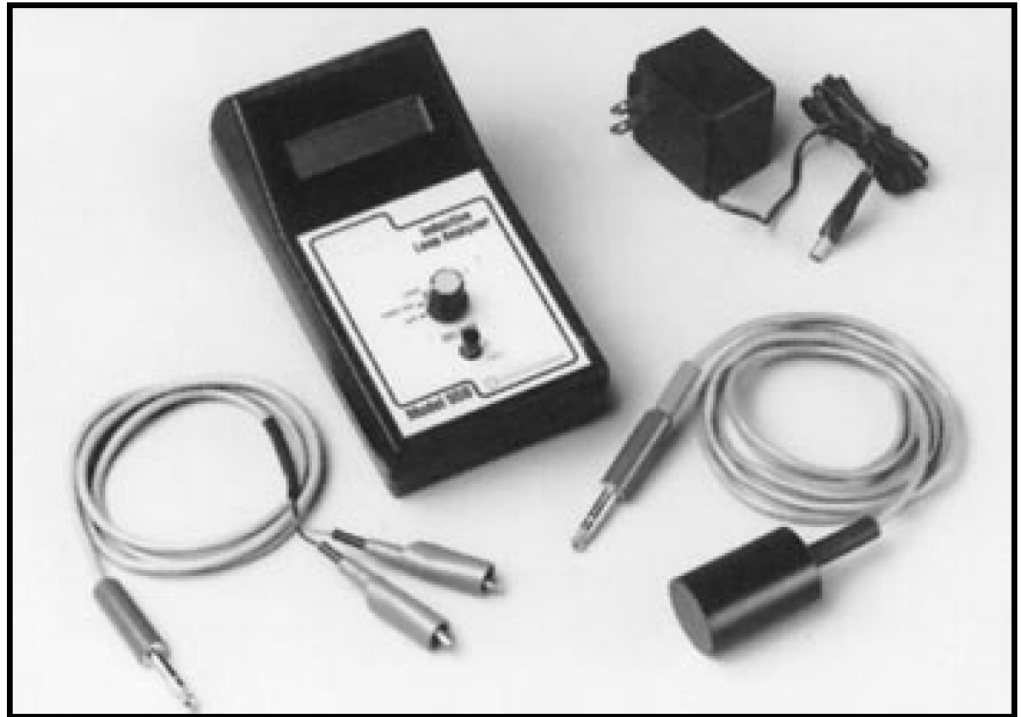


# ***Inductive Loop Analyzer***

## Model ILA-550

### Inductive Loop Analyzer

Excellent tool for use  
with scanning type  
detectors



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#### Features & Benefits

- Contains all the functions necessary to test newly installed loops and loop systems. A powerful troubleshooting tool.
- Easy to use, fits in the palm of your hand.
- Housed in an attractive, compact, impact resistant case.  
Liquid crystal display (LCD) provides direct readout for ease of measurement.
- Operates on internal batteries or from an AC adapter (included). The adapter also charges the batteries.  
Battery level status shown on display.
- Automatic shutoff if the selector switch is not moved within eleven minutes or if the battery voltage falls below a preset level - to conserve battery life.
- Measures the leakage resistance of the loop to ground at 500 VDC.
- Measures frequency and relative signal strength of a loop network connected to an active detector with a probe suspended over the loop (indirect method) or when connected to the loop terminals (direct method).
- Measures loop inductance, resistance, and Q of a loop with NO detector connected. Unit provides excitation to measure newly installed loop at locations without power or a detector.
- Measures the change of inductance ( $-\Delta L$ ) caused when a vehicle drives over the loop and remembers the greatest change encountered. Useful for properly setting detector sensitivity levels.
- Comes with a nylon bag to carry the analyzer and all accessories.

Specifications  
Model ILA-550

### ILA-550 System

- ILA-551 - Operating Manual
- ILA-552 - Frequency Probe
- ILA-553 - Protective Nylon Carrying Case
- ILA-554 - A.C. Adapter
- ILA-555 - Test leads
- ILA-559 - Hand held unit only
- ILA-550G - Inductive Loop Analyzer 240 VAC (Great Britain)
- ILA-554G - Adaptor, AC 240 VAC
- ILA-550I - Inductive Loop Analyzer 240 VAC (Australia)
- ILA-554I - Adaptor, AC 240 VAC

### ILA-550 System Accessories (Ordered separately)

- ILA-556 - Standard automotive cigarette lighter adapter (used for charging unit in vehicle)
- ILA-557 - Extend card for rack mount detectors
- ILA-558 - Rechargeable battery pack (replacement)

### ILA-550 System Specifications

- **Frequency:** Internal Timebase
  - ▶Range: 1 khz to 125 khz
  - ▶Basic Accuracy: 0.01% at 70°F
  - ▶Resolution:  $\pm 1$  Hz at 40 khz\*
  - ▶Least significant digit (LSD) displayed is 1 Hz.
  - \*Resolution degrades as measured frequency increases and/or sensitivity setting of a scanning detector decreases.*
- **Signal Strength:** Relative measurement of the field around the loop.
- **Inductance (L):**
  - ▶Range: 20 mh to 2500 mh
  - ▶Basic Accuracy: 10% of measured value
  - ▶Resolution:  $\pm 1$  mh
  - ▶Least significant digit (LSD) displayed is 0.1 Hz when  $L < 100$  mh; 1 mh when  $L \geq 100$  mh
- **Resistance:**
  - ▶Range: 0 - 40 ohms
  - ▶Basic Accuracy: 5% of measured value or 0.5 ohms.
  - ▶Resolution:  $\pm 0.2$  ohms
  - ▶Least significant digit (LSD) displayed is 0.1 ohms
- **$\Delta L$ :**
  - ▶Operating Range: 20 mh to 2500 mh
  - ▶Resolution: 0.002% at 115 mh
  - ▶Least significant digit (LSD) displayed is 0.001%
  - \*Resolution increases up to 0.001% as loop inductance increases.*
- **Leakage Resistance:**
  - ▶Range: 5 - 500 megohms
  - ▶Basic Accuracy: 10% of measured value
- **Temperature Range:**  
+32° F to +122° F (0° C to 50° C)
- **Power:**
  - ▶Internal: 12.5 VDC rechargeable battery pack
  - ▶External: 12 VDC plug-in AC adapter
- **Size (Envelope Size):**  
7.5" L x 4.0" W x 2.7" H  
(19.05 x 12.44 x 6.85 cm)
- **Weight:** 1 lb 6 oz (620 grams), excluding accessories and case

