Physical Specifications:

Dimensions: Height = 11"
Length = 10.5"
Width = 5.2"

Weight: 8.7 lb. with batteries

Sealing: Test set is water and dust resistant. Submersion in water should be avoided however.

Switches: Monopanel front panel with membrane type switches.

Storage temperature: −40°F to +120°F (−40°C to +50°C)

Operating temperature: 0°F to +120°F (−18°C to +50°C)

Humidity: 90% non condensing

Electrical Specifications:

Power supply: 6 C-size batteries
Recommended batteries: Alkaline cells or Nickel-cadmium rechargeable cells.

All functions are auto ranging.

Electrical tests unit performs on cable pair:

- AC Voltage: 0 to 400 VAC (± 2% ± .5 V)
- DC Voltage: 0 to + 400 VDC (± 2% ± .5 V)
- DC Current: 0 to 200mA DC
  (± 1% ± .3 mA)
  (at 20mA ± .3 mA)
  Z_{in} = 430 Ohms
- Resistance: 0 to 35 Megohms
  0 − 200 ohms (± 1% ± 2 ohms)
  200 − 1 Megohm(± 1%)
  1M − 3.5 Megohms(± 2%)
  3.5 −35Megohms(± 10%)
- Capacitance: 10 pf to 5 µf (± 2%)
- Loss: − 40 to +10 dBm (± 0.5 dBm)
  (Freq. 100 Hz to 10KHz ±5Hz)
  Z_{in} = 600 ohms
- Metallic Noise: 0 to 50 dBrnC (± 0.5 dBrnC)
  Z_{in} = 600 Ohms
- Power Influence: 40 to 100 dBrnC (±0.5 dBrnC)
  Z_{in} = 100K Ohms

- Distance: 0 - 100 ft. (± 1% ± 4 ft.)
  100 - 20,000 ft. (± 1% ± 10 ft.)
  20,000 - 200,000 ft. (± 3%)
- Leakage: 0 to 100 points (± 1 point)
- Ringer Count: 0 to 5 C-4 type ringers (± .5)

Outputs:

- Tracing tone: 577.5 Hz continuous or alternating
- Send Frequency: 404, 1004, 2713, 2804, 3000, 5000 Hz
  at 0 dBm ± 0.5 dB
  Z_{out} = 600 ohms
- Dial—Standard pulse or standard DTMF
- Printer: Connector for HP-IL loop connection
- Terminals on front panel to access pair under test.

Miscellaneous Functions:

- Self Test
- Line Monitor
- Automatic calculation of line balance

- Identifies pots pairs
- Detects and identifies loop aids (extenders)
- Indicates if Loop Current is within acceptable limits
- Indicates if Circuit Loss is within acceptable limits
- Indicates if Gain/Slope is within acceptable limits
- Indicates if Ground Ohms are within acceptable limits
- Manual dialing
- Automatic dialing of stored phone numbers
- Tests for Opens
- Tests for Resistive Faults
- Automatic distance calculation using capacitance or resistance
- Indicates if Leakage is within acceptable limits
- Makes measurements by conventional 2-terminal methods or by 3-terminal Thevenin method.
- Four-function calculator
- Clock with date and time of day
- Case or job number recording for either current or later print-out
- Measures gain slope 3 frequencies up to 11 frequencies