

Model R-90 Continuity Test System

Product Features

- 200 Test points per module
- Expandable to 3200 test points
- Programmable test thresholds (100Ω - 100MΩ)
- Tests for opens and shorts
- High speed operation
- Comprehensive turn-key software

Applications

- **Printed circuit cards**
- **Backplanes**
- **Harnesses**
- **Cables**

The CheckSum Model R-90 Continuity Test System turns your PC into an efficient automated test system. The system automatically self-learns a known-good assembly, then saves the connection data on disk for future use. Alternatively, you can read test specifications from engineering data or manually enter (or edit) the data. Once the device is "learned," you can print a report showing all of the connections.

The system performs high-speed tests of the assembly (typically in under a second), reporting on any opens or shorts in the assembly. Once the test is completed, you can print out reports showing the specifics of the failures (in terms of the assembly being tested, not the tester) or batch reports showing the yield from a batch of assemblies. This information can be sent to your printer, CRT, or saved on disk for archival or future analysis.

The Model R-90 includes everything you need to begin testing — a 200 point I/O Module for your PC, cabling, software, and instruction manual. The Model R-50 expansion modules can be used to extend the system in 200 point increments up to 3200 points.

CheckSoft Software Highlights

Learn Capabilities

- Automatic self-learn of an assembly
- Learn an assembly from ASCII file data
- Manual entry or edit of connection data
- Assignment of UUT-specific pin and wire names (up to 12 characters each)
- Assignment of operator instructions
- Save test specification data on a disk file



Typical R-90 continuity test system shown with optional test controller (PC), optional Model GS-850, and R-90 module.

Test Capabilities

- Three test modes normal, connections-only, and extensive. Loop-tests for intermittent failures
- Programmable dwell times
- Programmable test thresholds
- Separate connection/open test thresholds
- Testing of resistor, diode and transistor junction presence

Reporting Capabilities

- Test failure report
- Batch report
- Test specification report
- Log to spreadsheet-compatible file
- User-configurable report information (date/time, facility name, batch name, special data,...)
- Reports to printer, CRT or disk file

**CONTINUITY &
CABLE TEST
SYSTEMS**

Model R-90 Continuity Test System

Other Capabilities:

- Measure user-specified points interactively
- Aids for building or troubleshooting an assembly
- Probe test points for identification
- Control with keyboard, mouse, or batch file

Hardware Highlights

- 10 volt test level (full range)
- Programmable test thresholds: 100 Ω - 100M Ω
- Typical threshold uncertainty < 20% of each decade range (ranges 1K Ω - 100 M Ω). Typical uncertainty at 100 Ω is < 50 Ω
- Can test from every point to every other point
- No relays
- High-reliability gold connectors
- Every test point fully bi-directional
- High-speed: Typical test time under one second. Auto-learn of 200 point assembly in less than 10 seconds
- Configurable addressing
- Each module uses one full-length ISA slot
- Cabling extends approximately 34" from PC terminating with 50-pin female ribbon-cable connectors
- Comprehensive self-test capabilities

Configuration

Model R-90 Continuity Test System Includes:

- 200 Point I/O Module
- (4) 50-pin ribbon cables
- DOS CheckSoft Software
- Instruction Manual

Model R-50 Expansion I/O Module Includes:

- 200 Point I/O Module
- Four 50-pin ribbon cables