

FEATURES

MODEL CT100 CABLE EVALUATOR/TESTER

- Tests Fenwal Leak Detection Cable
- Can Test String of Cables Up To 5000 ft. (1524 m)
- Also Tests Meter Batteries
- Mounted in Hard Plastic Case

MODEL WCC WEIGHTED NON-SENSING CABLE

- Artificially Adds Distance Between Cable Segments
- Simulates 50 feet (15.2 m) of Non-Sensing Cable

MODEL CT100 CABLE EVALUATOR/TESTER

DESCRIPTION

The Model CT100 Leak Detection Cable Evaluator/Tester tests the Fenwal Models SC-25, SC-50 and SC-100 Leak Detection Cables by measuring the leakage current across the cable's two sensing wires. A high leakage current affects the accuracy of the Leak Detection Controller readings. While a reading of zero is ideal, a reading of 25 μA or less is acceptable. The CT100 can also test the batteries in its current source and the meter batteries.

OPERATION

To test the Leak Detection Cable, follow the listed steps:

1. Open the CT100 enclosure. Disconnect the cable to be tested from the Leak Detection Controller. Connect the appropriate adapter cable to the cable receptacle on the right side of the CT100.
2. Connect the cable to be tested to the CT100. The CT100 can test one cable or a string of cables, up to a total length of 5000 ft. (1524 m).
3. Set the current meter's **<Selector>** switch to the 200 μA position (designated with a yellow arrow on the current meter).
4. Toggle the **<Test/Configuration>** switch on the current source to the left. Record the meter reading. A reading less than 25 μA is acceptable. A reading greater than 26 μA indicates that the cable needs attention. It may be necessary to separate mated pairs of cable and test each section individually to isolate the problem cable.
5. To check the accuracy of the test current, toggle the **<Calibrate>** switch to the right and ensure a reading of 170 μA to 185 μA is displayed. If not, change the battery in the current source and retest for the proper value.



Figure 1. Model CT100 Leak Detection Cable Evaluator/Tester, Open View

BATTERY TESTING

The CT100 can also test the batteries in its current source and the meter batteries. To test the batteries follow the listed steps:

1. Turn the **<Selector>** switch to the 20 Vdc position. If the reading is less than 8 Vdc, the battery should be changed. To access the battery, remove the four screws from the front cover of the test fixture and replace the battery with a 9-Volt battery. Replace the screws.
2. If the battery inside the meter is low, the characters 'BT' will appear in the upper left position of the meter display. The battery should be changed when this occurs. Remove the meter and replace the battery in the battery compartment.

MODEL WCC WEIGHTED NON-SENSING CABLE

DESCRIPTION

The Model WCC Weighted Connector simulates 50 ft. (15.2 m) of Non-Sensing Cable and can be used to artificially add distance between cable segments. It is ideal for providing distance separation when there is no physical separation and is recommended when connecting multiple floors or in Distance-Read Systems when the Leak Detection Cable passes from one room to the next.

ORDERING INFORMATION

Part Number	Model Number	Description
30-500004-001	NSC-25	25 ft. (7.6 m) Non-Sensing Cable
30-500004-002	NSC-50	50 ft. (15.2 m) Non-Sensing Cable
30-500004-003	NSC-100	100 ft. (30.5 m) Non-Sensing Cable
30-500005-001	NSC-1000	Bulk Non-Sensing Cable, 1,000 ft. (304.8 m) Spool
30-500006-001	WCC	Weighted Connector (50 ft. Non-Sensing Cable)
30-500007-001	JC-50	Mounting J-Clips, 50 pack
30-500007-002	CT100	Universal Cable Tester
30-500007-004	EOL	End of Line Terminator
30-500007-005	CCK-LD-SC	Cable Connector Kit
30-500012-002	WA-DC-24	Wall Adapter for LDZ4
30-500012-003	JBX	Power Supply in J-Box (120 Vac In/24 VacOut)

OTHER ACCESSORIES

- **NSC-25**
25 ft. (7.6 m) Non-Sensing Cable compatible with Fenwal LDZ and LD5000 Controllers. Both ends are pre-terminated with quick mating connectors.
- **NSC-50**
50 ft. (15.2 m) Non-Sensing Cable compatible with Fenwal LDZ and LD5000 Controllers. Both ends are pre-terminated with quick mating connectors.
- **NSC-100**
100 ft. (30.5 m) Non-Sensing Cable compatible with Fenwal LDZ and LD5000 Controllers. Both ends are pre-terminated with quick mating connectors.
- **NSC-1000**
1,000 ft. (304.8 m) Spool of Bulk Non-Sensing Cable compatible with Fenwal LDZ and LD5000 Controllers. Ships without end connectors.
- **JC-50**
Mounting J-Clips, 50 pack
- **EOL**
End-of-Line Terminator
- **CCK-LD-SC**
Cable Connector Kit consists parts to terminate one Detection or Non-Sensing Cable
- **WA-DC-24**
Wall Adapter for LDZ4
- **JBX**
Power Supply in J-Box (120 Vac In/24 Vac Out)

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These instructions do not purport to cover all the details or variations in the equipment described, nor do they provide for every possible contingency to be met in connection with installation, operation and maintenance. All specifications subject to change without notice. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to KIDDE-FENWAL, INC., Ashland, MA 01721.