

FEATURES

- Monitors Up To 5000 ft. (1523.9 m) of Patented Leak Detection Cable
- Programmable Leak and Contamination Alarm Thresholds
- Single Person Mapping
- Simple User Interface with 4 x 20 LCD
- EIA-232 Port Allows Configuration with PC
- 4-20mA and Modbus Output Interface with External Building Management Systems
- Automatic and Manual Cable Calibration
- Event Log Stores 100 Date and Time Stamped Alarms
- 288 Day Trend Data Log Shows Leakage Current on Cable Every 24-Hours
- Two Configurable Alarm Relays for Supervised or Non-Supervised Operation, Latched or Non-Latched
- Built-In Audible Alarm

DESCRIPTION

The Fenwal LD5000 detects and reports the presence and exact location of water and other conductive liquids. When a conductive liquid comes in contact with the Fenwal Leak Detection Cable, the system pinpoints the location of the leak. Within seconds, the system's alarm sounds and the exact distance to the leak is shown on the four line liquid crystal display. The operator then cross-references this distance with the cable route map (by others) and quickly locates the leak.

Fenwal Leak Detection Cables are available in standard lengths of 25, 50 and 100 feet (7.6, 15.2 and 30.4 m respectively.) Mating connectors make installation quick and easy; cables can be connected end to end when extra length is needed. The maximum total cable length that can be connected to the LD5000 controller is 5000 ft. (1523.9 m). Built-in diagnostics simplify troubleshooting cable problems.

In the event of a minor leak, the Leak Detection Cable can be wiped dry in a matter of seconds, without the use of hot air dryers. The design of the LD5000 eliminates high humidity false alarms that can occur with other systems.

The LD5000 continuously monitors the Leak Detection Cable; if the cable has been cut, has a bad connection or if continuity has been lost for any reason, a cable trouble is activated.



APPLICATIONS

Critical spaces such as data centers, clean rooms, telecommunication centers, record storage areas and medical laboratories are just a few of the typical applications for the Fenwal LD5000 Distance-Read Detection system. Essentially, the LD5000 is ideal for those applications where the cable may not be visible (under sub-floors, above ceilings, etc.) or where one continuous run of cable is preferred.

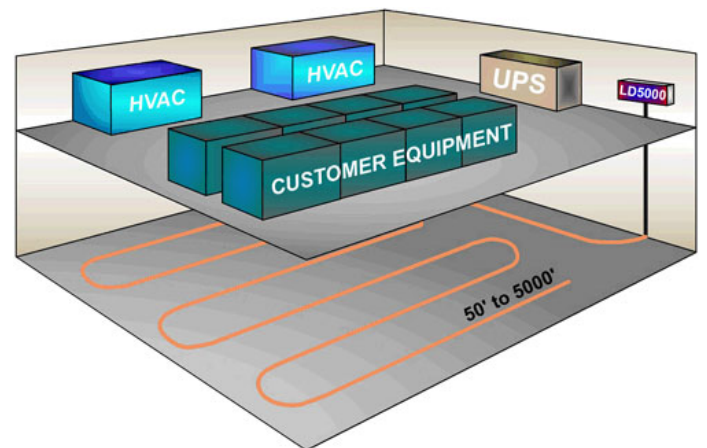


Figure 1. Typical Application

SPECIFICATIONS

Model Number:	LD5000
Input Power:	500 mA @ 120/240 Vac 50/60 Hz
Length of Sensor Cable:	Maximum 5,000 feet (1523.9 m)
Display:	4 line x 20 character backlit LCD Display with 0.60" character height
LED Indicators:	One Status LED
Switches/Keys:	Enter, Escape and Navigation (left, right, up and down)
Performance:	
Time for Alarm Response:	Less than 30 seconds (typical 20 seconds)
Detection Accuracy:	Pinpoint leaks within ± 2 ft. (0.6 m) + 0.25% of total length (see Detection Accuracy Chart)
Audible Output:	In-built with 85 dB @ 2 ft. Output
Relay Outputs:	2 Form C Leak Detected and 2 Form C Cable Fault Relays. Contacts rated 1 Amp at 24 Vdc/0.5 Amp at 120 Vac (resistive) Configurable as Latched or Non-Latched
Analog Output:	4-20 mA
System Configuration:	Either via front panel keypad or EIA-232 port
Configuration features:	Water and contamination alarm thresholds Automatic and manual cable calibration
Ports:	
Configuration Port:	EIA-232
Network Port:	EIA-485
Baud rate:	1200, 2400, 9600 (default) or 19200
History Logs:	100 event alarm history log 288 record current leakage history log
Enclosure:	Wall Mounted Metal cabinet rated NEMA 1
Operating Environment:	
Operating Temperature:	32 to 122°F (0 to 50°C)
Storage Temperature:	-4 to 158°F (-20 to 70°C)
Relative Humidity:	5 to 95% (non-condensing)
Altitude:	10,000 feet (3,048 meters)
Dimensions:	12.0" W x 14.0" H x 4.0" D (305 mm x 356 mm x 102 mm)
Weight:	12 lb. (5.4 kg)

DETECTION ACCURACY

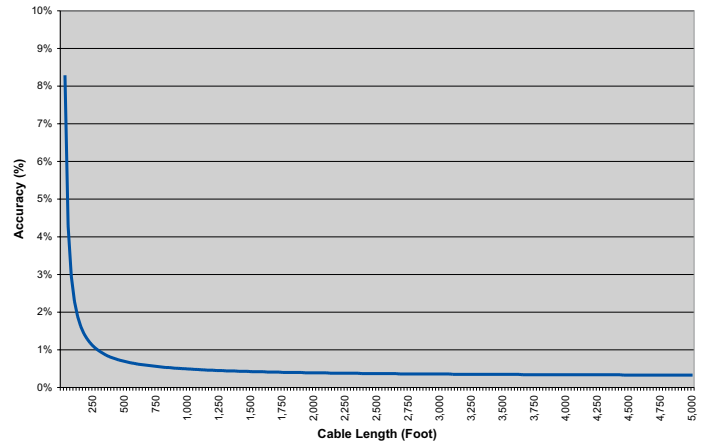


Figure 2. Detection Accuracy

ORDERING INFORMATION

Part Number	Model Number	Description
30-500011-001	LD5000	Distance Read leak detection controller
30-500002-001	SC-25	25 ft. (7.6 m) Leak Detection Cable with end connectors
30-500002-002	SC-50	50 ft. (15.2 m) Leak Detection Cable with end connectors
30-500002-003	SC-100	100 ft. (30.4 m) Leak Detection Cable with end connectors
30-500004-001	NSC-25	25 ft. (7.6 m) Non-Sensing Cable with end connectors
30-500004-002	NSC-50	50 ft. (15.2 m) Non-Sensing Cable with end connectors
30-500004-003	NSC-100	100 ft. (30.4 m) Non-Sensing Cable with end connectors
30-500006-001	WCC	Weighted Non-Sensing Cable (simulates 50 ft.)
30-500007-001	JC-50	J-Clips, 50 pack
30-500007-002	CT100	Universal Cable Tester
30-500007-004	EOL	Replacement End Terminator
30-500007-005	CCK-LD-SC	Cable Connector Kit
30-500011-201		LD5000 User Guide

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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.