

LDZ Zone Leak Detection Panels

F-30.5000.3

FENWAL®

FEATURES

- Four and Eight Zone Models
- Monitor Up To 1000 ft. (304.8 m) of Leak Detection Cable Per Zone
- Sensitivity Settings for Each Zone Minimize False Alarms
- Summary Alarm Output
- Cable Trouble Alert
- Built-In Audible Alarm
- Wall Mount Enclosures
- LDZ8 Provides EIA-232 Serial Port for Computer Interface and EIA-485 Port for Modbus Output

DESCRIPTION

Fenwal LDZ4 (four zone), and LDZ8 (eight zone) Zone Water Leak Detection Panels detect and report the presence of water and any other conductive liquids.

The LDZs can monitor up to 1000 ft. (304.8 m) of patented water leak detection cable per zone. If water or other conductive liquids contact the cable anywhere along its length, the control panel illuminates the appropriate zone LEDs and audibly annunciates the leak. Since water leak detection cable is available in 25, 50 and 100 foot lengths (7.6 m, 15.2 m and 30.4 m respectively), the system is scalable—the cables connect end-to-end to accommodate larger spaces.

The LDZs continuously monitor the water 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 alert is activated. A summary alarm relay output is standard. Each individual zone's alarm threshold is adjustable to prevent false alarms.

Zone detection panels are also compatible with Fenwal Model LDZ Spot Leak Detectors. Multiple spot detectors may be wired to a single-zone or may be intermixed with the leak sensing cable.

The LDZ8 has been further enhanced with a variety of features. To enable easy configuration, the LDZ8 interfaces with a computer or terminal through a standard EIA-232 port. The last 100 alarms can be viewed for analysis. The unit stores a history of the cable's current leakage. The threshold settings on the LDZ8 can be adjusted accordingly to prevent false alarms caused by cable contamination. The LDZ8 also provides an EIA-485 port for Modbus output.



APPLICATIONS

Zone Leak Detection Panels are ideal for areas where the cable is visible and/or where it is preferable to have multiple leak detection cables terminate at one panel, and provide specific annunciation of which cable is in alarm.

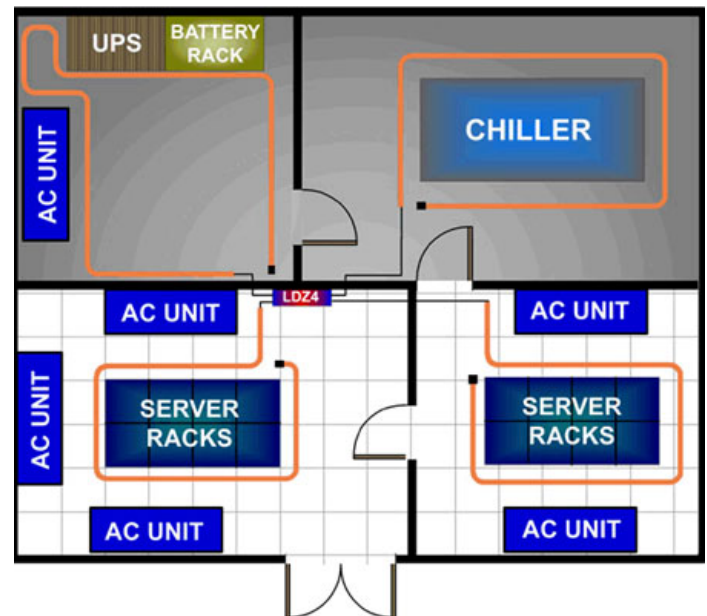


Figure 1. Typical Application

SPECIFICATIONS

Model Numbers:	LDZ4 and LDZ8
Number of Zones:	LDZ4: Four LDZ8: Eight
Input Power:	LDZ4: 300 mA max @ 24 Vac/Vdc LDZ8: 500 mA max @ 120/240 Vac 50/60 Hz
Length of Sensor Cable:	Maximum 1,000 feet per zone
LED Indicators:	Power: Green LED Leak Detected: One Red LED per Zone Cable Continuity Fault: One Yellow LED per Zone
Switches:	LDZ4 and LDZ8: Test, Alarm Silence, Reset
Time for Alarm Response:	Less than 30 seconds (typical 20 seconds)
Audible Response:	Greater than or equal to 85 dBA@ 2 ft.
Relay Outputs:	1 each Form C Leak Detected Relay, Fault Relay and Summary Relay. Contacts rated 1 Amp at 24 Vdc/ 0.5 Amp at 120 Vac (resistive)
Sensitivity Setting:	Adjustable
Computer Interface for LDZ8:	Via EIA-232 serial port: Via EIA-485 port:
	100 event alarm history log 288 record current leakage history log Modbus output
Enclosure Specifications:	Metal, Wall Mounting, rated NEMA 1 type 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:	LDZ4: 10.5" W x 8.0" H x 2.0" D (267 mm x 203 mm x 51 mm) LDZ8: 12.0" W x 14.0" H x 4.0" D (305 mm x 356 mm x 102 mm)
Weights:	LDZ4: 4.0 lb. (1.8 kg) LDZ8: 12.0 lb. (5.4 kg)

ORDERING INFORMATION

Part Number	Model Number	Description
30-500009-001	LDZ4	4 Zone Leak Detection Controller
30-500010-001	LDZ8	8 Zone 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
30-500012-002	WA-24-ST	Wall Adapter, 24 Vac
30-500012-003	JBX	Power Supply in J-Box (120 Vac In/24 Vac Out)
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
30-500009-201		LDZ4 User Guide
30-500010-201		LDZ8 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.