



CABLE-STYLE WATER DETECTOR LD5100

DESCRIPTION

The **Model LD5100** reports the presence of water in an area and can quickly pinpoint the location of a leak. Within seconds, an alarm sounds and the distance to the leak is shown on the **Model LD5100** display. The physical location of the leak can be determined by cross-referencing the distance displayed with a cable reference map of your site.

Sensing cable is available in standard lengths with preinstalled mating end connectors. Linked end-to-end, these connections allow for easy installation of additional length. The **Model LD5100** can monitor up to 5000' (1500m) of sensing cable.



LD 5100



FEATURES

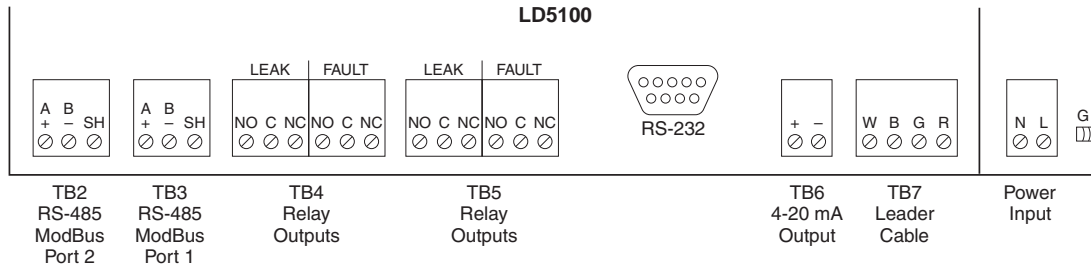
- **Adjustable leak, delay and contamination alarm thresholds**
- **12 configurable virtual zones**
- **Single person cable mapping to simplify installation and setup**
- **Simple user interface with 160x160 Graphic LCD backlit display**
- **Dual Modbus (RS-485)**
- **4-20mA analog output for simple integration**
- **RS-232 port allows configuration with PC**
- **Dual dry contact outputs for both leak and cable break**
- **Event log stores 512 date and time stamped alarms**
- **288 day trend data log shows leakage current on cable every 24 hours**

SPECIFICATIONS	
Supply Voltage	120/240 VAC 50/60 Hz
Analog Output	4-20 mA loop powered, 18-36 VDC, RL=500Ω maximum
Relay Type	2-SPDT (leak detection) 2-SPDT (cable break detection)
Relay Outputs	1A @ 24 VDC, 0.5A resistive @ 120 VAC
Accuracy	±2 ft (0.6m) plus ±0.5% of the cable length
Repeatability	±2 ft (0.6m) ±0.25% of the cable length
Communication Ports	
Ethernet	10/100BASE-T, 500 VAC RMS isolation
RS-232 port	9600 baud, no parity, 9 data bits, 1 stop bit
RS-485	1200, 2400, 9600 or 19200 baud (selectable), no parity, 8 data bits, 1 stop bit
Protocol	
Terminal emulation (RS-232)	VT100 compatible
Modbus (RS-485)	Slave; RTU mode; supports function codes 03, 04, 06 and 16
Display	Graphic, 160 x 160 pixel resolution backlit LCD with contrast adjustment
LED Indication	1 bi-color power/status (green=power on, red=alarm)
Response Time	Adjustable from 20-3600 seconds
Alarm	Audible: 85 dBa @ 2' (0.6m); resound 0-999 minutes
Altitude Limits	15,000 ft (4,572m) maximum
Logging Samples	
Event log	Last 512 events
Trend log	Cable current everyday, for last 288 days
Security Login	
Terminal emulation access	No login required
Display access	1 administrator (password for configuration, not to view status)
Operating Humidity	5% to 95% non-condensing
Operating Temperature	32° to 122°F (0° to 50°C)
Mounting	Wall mount
Cable Length	5000 ft (1522m) maximum
Cable Type	Water detection cable
Dimensions	12.6"H x 10.0"W x 3.3"D (32.0 x 25.4 x 82.5 cm)
Approvals	CE, ETL Listed, RoHS compliant
Weight	10 lb (4.53 kg) without cable
Warranty	1 year



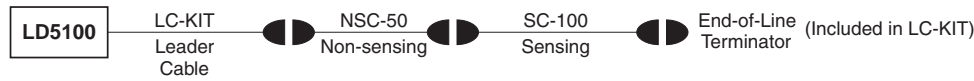
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WIRING

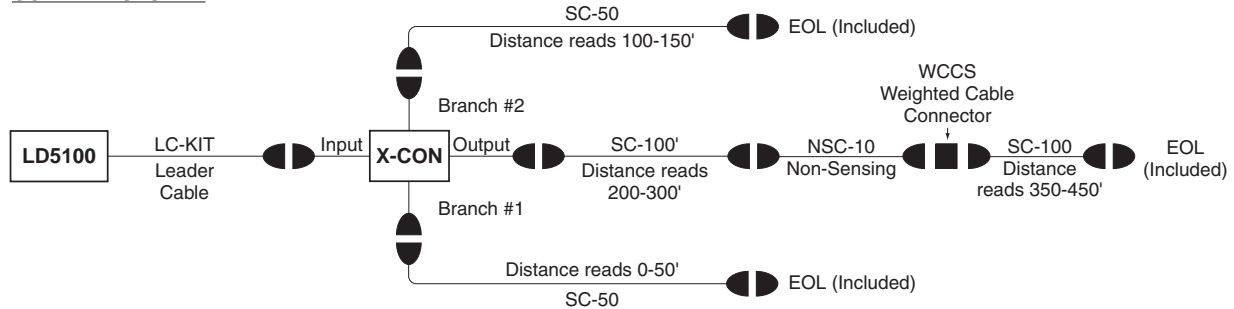


SENSOR WIRING

SIMPLE SYSTEM



COMPLEX SYSTEM



ORDERING INFORMATION

MODEL	DESCRIPTION
LD5100	Water detector includes 15' leader cable and end-of-line connector (order sensing cable separately)

RELATED PRODUCTS	
JC-200	Package of 200 cable-securing J clips
JC-25	Package of 25 cable-securing J clips
NSC-10	10' non-sensing cable
NSC-100	100' non-sensing cable
NSC-25	25' non-sensing cable
NSC-50	50' non-sensing cable
SC-10	10' sensing cable
SC-100	100' sensing cable
SC-25	25' sensing cable
SC-50	50' sensing cable
WCCS-50	Weighted cable connector; simulates 50' of sensing cable
X-CON	X connector single SC input, 3 SC outputs