Innovative Embedology

Drop Sense WLD 4800

Protecting a facility from damaging leaks is an important part of any disaster mitigation plan. C Systems WLD4800 pairs superior leak detection technology with an easy-to-use interface. This integration helps users to quickly and efficiently establish a leak detection system that reliably protects valuable assets.

Technology
The product is designed using High Speed Microprocessor based proprietary design and uses 12V, 50Hz AC as sensing voltage for sensing potential leaks.

Technological Advantage over Existing Design
Existing water leak detection systems available in the market, uses a 12V / 24V DC supply for sensing leaks. When DC excitation is used in the sensing cables they form electrolysis during the presence of water and forms corrosion around the sensing cables. This reduces the sensitivity over a period of time to virtually zero. However when AC is used as a sensing voltage, it does not corrode or degrade due to the alternating nature of the current and hence maintains the sensitivity of the sensing cables through out its life time.

C Systems designed the WLD4800 with the end-user in mind. All basic device functionality is available from the LCD screen — configure, monitor, locate, and acknowledge leaks from the front panel of the WLD4800. This allows the WLD4800 to be used as a stand-alone device with out sacrificing any leak detection or alarm notification functionality.

Once the WLD4800 is connected to a network via RS485 to Ethernet gateway, a robust MODBUS interface expands the capabilities of the unit. Using any BMS interactive facility mapping tool, one can create an interactive overlay that displays on top of an uploaded floor map image. When a leak is detected, the WLD4800 displays its zone name on the map, making leak location quick and easy.

The WLD4800 is ideal for applications that require a stand-alone system that can also be integrated into a larger centralized monitoring system.

Features

- Monitor up to 400 meters of conductive fluid sensing cable
- Microcontroller based innovative technology.
- Configure up to 8 zones.
- Triggers individual Relay output for each zone and activates common Fire & hooter relays.
- Access the device remotely via Remote BMS via MODBUS protocol
- Zone names can be configured
- Log an extensive variety of events and alarms

Benefits

- Stand-alone or integrated leak detection and notification
- Pinpoint zone leaks quickly and accurately
- Manage an entire Server Room leak detection system through one RS485 Port or through IP Gateway
- Detailed alarm history with time and date stamp assists in troubleshooting

A LCD supports all device functionality

Leak Detection

www.csystemsindia.com

WLD4800 Specifications

Power	230VAC@ 500mA max, 50Hz
Inputs	
Sensing Cable	Compatible with all Drop Sense sensing Cables
One Cable Input	Requires 2m (6.6ft) leader cable and EOL (included)
Maximum Length	Up to 400m (1312 ft) of conductive fluid sensing cable
Minimum Length	5m (16.6ft)
Detection Accuracy	100 % detection of respective zone
Detection Repeatability	100 % repeated accuracy of respective zone
Detection Response Time	< 100mSec
Outputs	
LED Indications	
Power on	Green LED
Alarm	Red LED for each zone
Fault	Amber LED for each zone
Isolate	Green LED for each zone
Relays	8 x Form SPDT Zone Leak Relays, 2 x Form SPDT Fire & Fault
Sounder	12V terminals for Hooter / strobe
Communication Ports	
EIA-485 (Port 1)	9600, or 19200 baud (selectable); No parity, 8 bits, 1 stop bit
R8A (Port 2)	50000 bps ; For firmware download
Protocols	
EIA-485 (Port 1)	Modbus RTU - Slave; Terminal emulation, VT100 compatible
Alarm Notification	
Audible Alarm	Inbuilt buzzer 80dBA @ 1m (3.3ft); External hooter (not included)
Visible Alarm	Alarm indicated on LCD screen and through BMS after integration
Logging Capabilities	
Event Log	Last 100 events with Date & time
Login Security	
Membrane Keypad	No password required to view controller status and data. Administrator password limits access to Log options.
Front Panel Interface	
Display	4 x 20 Characters Yellow Green backlit LCD screen; 95mm x40 mm
Operating Environment	
Temperature	0 to 50 Deg C (32 Deg to 122 Deg F)
Humidity	5% to 95% RH, non-condensing
Altitude	15,000ft (4,572m) max.
Storage Environment	20 Deg to 70 Deg C (-4 Deg to 158 Deg F)
Dimensions	320mm(W) x 190mm(H) x 80mm(D)
Weight	3Kgs
Mounting	Type 1 wall mount enclosure
Certifications	**CE** (EN IEC 61010-1:2010 + A1:2019, EN ISO 12100:2010)

Drop Sense

CSYSTEMS®
Innovative Embedology

No:122, 1st Floor, BHEL Nagar, Kundrathur Main Road,
Madanathapuram, Chennai 600116. INDIA.
9952667680, 9941006680, 9841157607
E-mail: sales@csystemsindia.com;
ww.csystemsindia.com

Innovative Embedology

Drop Sense

WLD sensor cable

Features

WLD Sensor cable is easy to lay and detects along its entire length. More than one WLD Sensor cable can be connected to a WD 2400

Detects water leaks under floors or isolated plant rooms

Rain detector to automatically close windows or vents

WLD Sensor Cable Specifications

Material:	PVC twisted pair with stainless 316 elements
Dimension:	3.5mm dia.
Maximum cable run:	200m (including detection cable)
Weight:	28 g /m
Controller:	Drop Sense WLD 2400
Country of origin:	INDIA

Part Codes

Sensing Cable Length (add type to above code)

-5M 5 meters (16.4ft)
-10M 10 meters (32.81ft)
-15M 15 meters (49.21ft)
-20M 20meters (65.62ft)
-25M 25 meters (82.02ft)

Custom lengths available on request *

No:122, 1st Floor, BHEL Nagar, Kundrathur Main Road,
Madanathapuram, Chennai 600116. INDIA.
9952667680, 9941006680, 9841157607
E-mail: sales@csystemsindia.com;
ww.csystemsindia.com