SYSTEM OVERVIEW

Water Leak Detection System protects your Data Center & Server Room equipment from damaging water leaks from malfunctioning of general plumbing failure or HVAC systems or other accidents in your facilities.

The water leak detection system is used for detecting the water leakage with unique dual source wheel seized algorithm, can precisely locate position. It’s been connected with water leakage sensor cable and shall send the audible and visual alarm. At the same time, it can control one channel digital signal, and plays its role of linkage.

CM-WLDCP has a RS-485 communication port that is been connected with the sensors and workstation. The user can view the water leak area through the software which shows the exact location of the water leak on the CAD map and remote monitoring as well as email alarm via the network.

APPLICATION

The leakage detection system has been widely used in Data Centers, Server Rooms, Strong Room in banks, Telecommunication facilities, water pipelines, Air Conditioning equipment, Intelligent Buildings, Libraries, Clean Factories and other sensitive places that needs leakage detection.
**PRECISION WATER LEAK DETECTION SYSTEM**

**FEATURE**

1) Ultimate Accuracy with precise location
2) Unique double-source wheel detection algorithm with the great accuracy rate
3) Environmental protection with simplified wiring structure
4) Intuitive with LCD screen
5) Direct display of the water leak area and its position
6) Easy to operate & do not need special maintenance.
7) The system is scalable. Can be monitored remotely via network
8) Stable system and will work all year round the year
9) Software shows the exact location of the water leak on the CAD map
10) Easy to install, easy to use, can be used as stand-alone

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Datos IoT reserves the right to change or modify specifications without prior notice. The latest product
specifications can be found at www.datosiot.com or contact info@datosiot.com for assistance.
### TECHNICAL SPECIFICATION OF THE CONTROL PANEL

#### DATA INTERFACE

<table>
<thead>
<tr>
<th>Sensor interface</th>
<th>Leaking interface</th>
<th>Accuracy</th>
<th>Accuracy error ±0.2m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special interface</td>
<td>1 channel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sensing cable</td>
<td>Position</td>
<td>Max Length</td>
<td>300M</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Device interface</th>
<th>DO</th>
<th>1 channel light output interface (Normally Open NO)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS485</td>
<td>1 channel</td>
<td>Standard MODBUS protocol can be through the 485 interfaces for data acquisition and settings</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Storage Environment</th>
<th>Temperature</th>
<th>5°C～30°C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Humidity</td>
<td>30～90 %RH No condensation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Working Environment</th>
<th>Temperature</th>
<th>0°C～70°C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Humidity</td>
<td>0%～95%RH No condensation</td>
</tr>
</tbody>
</table>

| Power                            | DC12V 200 mA        |                                    |

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WATER LEAK DETECTION: SENSORS

Model No : CM-WLC-10M
Product : Water Leakage Detector Cable
Description : High Sensitive Leak Detection Cable

1) High sensitive leak detection cable
2) Made of the most advanced conductive fluoropolymer material
3) The cable has strong mechanical properties, chemical resistance and abrasion resistance
4) Each cable has two dedicated transmissions
5) Cable senses water intrusion; then it triggers an alarm and points the location
6) The maximum operating temperature is 75°C
7) The cable is compact and lightweight, flexible and easy to install
8) The smooth design features facilitate the rapid drying of the cable

WATER LEAK DETECTION: ACCESSORIES

CM-WLLC
Leader Cable

The water detection modular leader cable is used to provide a non-sensing link between the control panel and the start of the water leak detection sensing cable.

CM-WLEL
Termination End

The Modular End Termination is connected to the last connector on a run of CM-WLC-10M Water leak detection sensing cable.

CM-WLCF
Hold-Down Clip

Hold Down Clips provide a simple and effective method of fixing leak detection cables. A water detection hold-down cable clip used to fix Sensing Cables

CM-WLJB
Branch Box

Leak detection sensor cable splitter (Junction Box). The controller detects only the length of the splitter itself, 1-2, and 2-3 are equivalent to 5 meters of sensing lines, respectively.

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REGIONAL LEAK MONITORING LEAK ALARM (SINGLE ZONE)
Model No: CM-SZWLD (Single-Zone Water Leakage Detector)

FEATURE

1) Monitor leak detection line up to 300m
2) Leak detection rope, relay output, power supply completely isolated, will not interfere with each other
3) Four LED indicators, power supply, self-test, leak detection and detection Open
4) Sensitivity is adjustable
5) Support sound alarm (optionally closed)
6) Rail-mounted industrial installation
7) All-way relay output (leakage and fault)
8) Suitable for small and medium-sized areas
9) Flexible alarm notification
10) Simple installation
11) Environmental Pro

1) Power Supply Terminal V +, V-, 12-24v DC Voltage
2) Relay output, COM common, NC normally closed, NO normally open
3) Leak detection rope input, CK1, CK2, regardless of positive and negative

PRODUCT OVERVIEW
Regional Leakage Monitoring Leakage Alarm is a single-zone leakage monitoring product. It can monitor whether there is any leakage in the leakage monitoring line area, and can continuously monitor the leakage detection line of up to 300 meters for leakage or failure.

When the CM-SZWLD detects that there is water leakage, the detection cord is not loose, or it is short-circuited, the CM-SZWLD can automatically notify you by means of the panel indicator display and voice prompts. The sound notification mode can be turned on or off through the setting mode. The user can also adjust the monitoring sensitivity to reduce false alarms.

CM-SZWLD as a reliable leak detection solution, the system can prevent flood damage, reduce business costs and down time.

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**REGIONAL LEAK MONITORING LEAK ALARM (SINGLE ZONE)**

**Model No: CM-SZWLD (Single-Zone Water Leakage Detector)**

![Image of the leak alarm](image)

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>12 to 24V DC, 100mA max, (non-standard)</td>
</tr>
<tr>
<td>Enter</td>
<td>Leak detection rope (non-standard)</td>
</tr>
<tr>
<td>Maximum leak detection rope length</td>
<td>300 meters</td>
</tr>
<tr>
<td>Detection Response Time</td>
<td>5 seconds</td>
</tr>
<tr>
<td>Sound Alarm</td>
<td>80 Fenbei 0.6M</td>
</tr>
<tr>
<td>Output</td>
<td>1 Relay Output (liquid discovery and fault alarm), 1A @ 24vDC, 0.5A @ 120vAC. DO</td>
</tr>
<tr>
<td>Isolated Voltage</td>
<td>1000v DC</td>
</tr>
</tbody>
</table>

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Zone leak detection rope is mainly used for water detection and is applicable to the leakage detection of data center subfloors, telecommunication rooms, HVAC equipment areas, pipelines, power rooms, storage rooms, large sinks and roofs. The cable is fluorinated polymer structure, corrosion resistance, high wear resistance, maximum operating temperature 75 °C.

1) Using special detection cables made of the most advanced conductive fluoropolymer material, which have strong mechanical properties, chemical and abrasion resistance.

2) Each cable has two dedicated transmissions. Sense line and fluoropolymer composition, the detection line embedded in the fluoropolymer skeleton, without any metal exposure, and even repeated use in a corrosive environment.

3) The cable is compact and lightweight, flexible and easy to install.

4) The smooth design features facilitate the rapid drying of the cable.

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Conductive Polyethylene + Alloy Wire</td>
</tr>
<tr>
<td>Ten meters gross weight</td>
<td>330g (with lead 2 meters)</td>
</tr>
<tr>
<td>Winding diameter</td>
<td>6.0mm</td>
</tr>
<tr>
<td>Core</td>
<td>Two-core spiral</td>
</tr>
<tr>
<td>Colour</td>
<td>Blue</td>
</tr>
<tr>
<td>Detect Core Resistance</td>
<td>12.6 ohms /100 meters</td>
</tr>
<tr>
<td>Maximum Exposure Temperature</td>
<td>75 °C</td>
</tr>
</tbody>
</table>
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