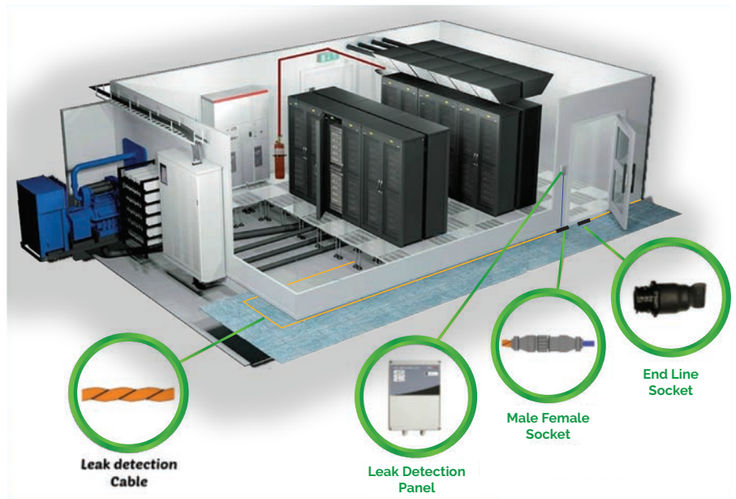
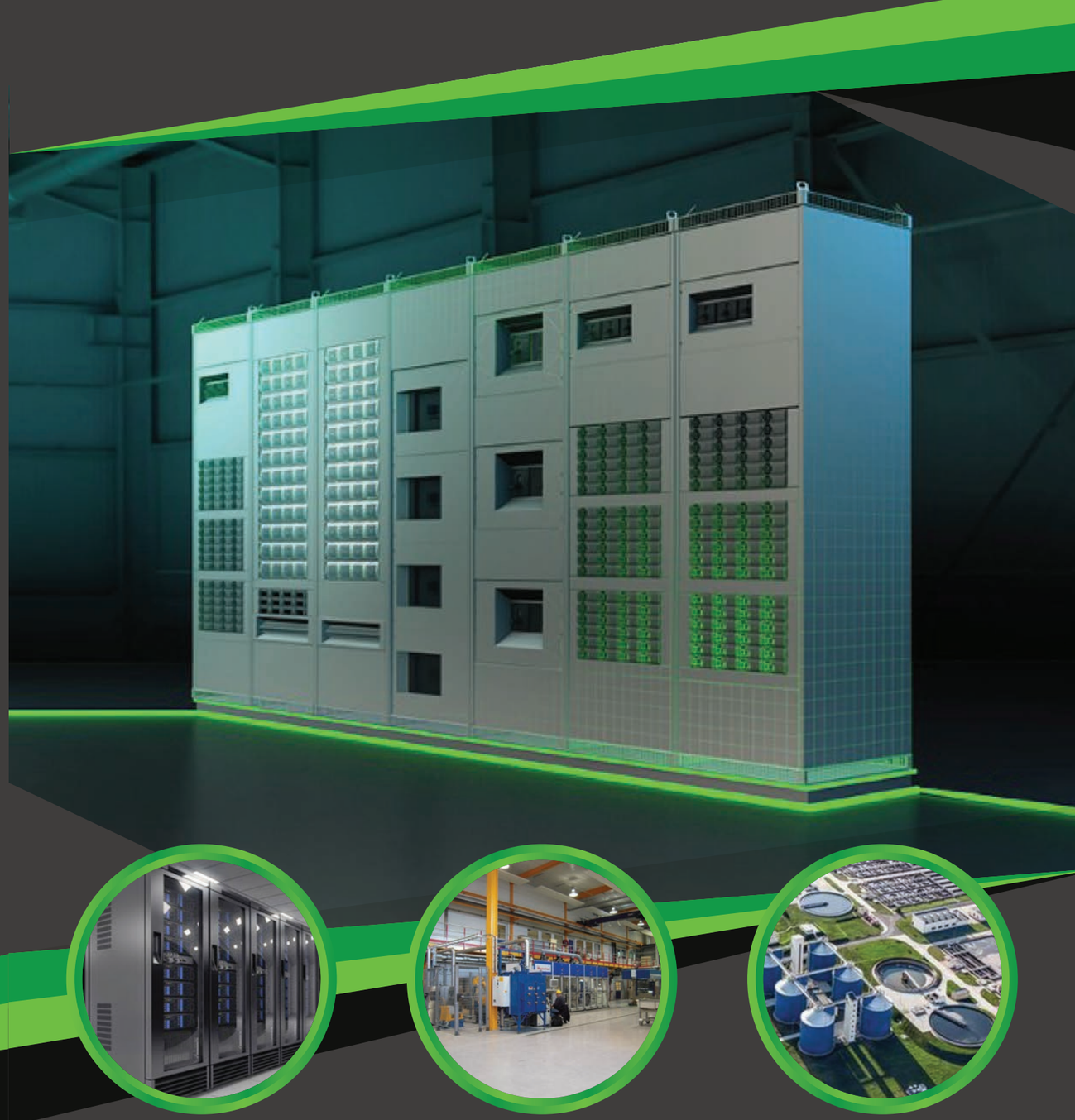


Applications:

- Raised floor computer facility
- Datacenter (IDC) for Banks, Finance, Logistics & etc.
- Communications and server equipment rooms
- ISP / co-location facilities
- Fiber optic switch sites
- Underground hot water piping
- Museums & Historical buildings
- Elevator pits
- Control rooms
- Raised floor office area
- Semiconductor plants
- Water treatment plant
- Libraries & Aquariums



SINGAPORE OFFICE

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CITEC
Leak Detection System

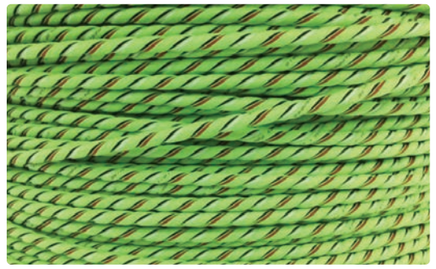
C UL US LISTED

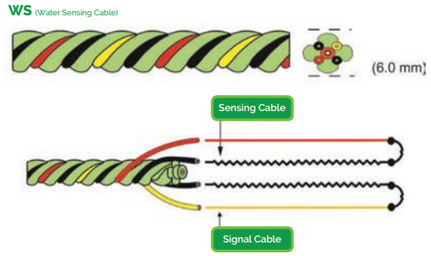
CE

RoHS

CITEC
Leak Detection System

Water Sensing Cable (C-WSC-XX)





Designed for using with locating or non-locating detection panels. It detects any presence of water and changes some of its characteristics which are analyzed by a detection panel. The panel will then generates an alarm and pinpoints the exact location of the leak or spill along the cable's length. It also been designed for the highest accuracy and maximum reliability.

Jumper cables are used to extend the control panel's leader cable to an area where sensing cable is not required. Invisible to the control panel, the jumper cable does not affect the accuracy of the readings or limit the amount of water detection cable that can be connected to a control panel. Jumper cables are only compatible with system using water detection cables.

All cables are highly durable and flexible hence they can be laid flat after installation. The cables are plenum rated and UL listed making them ideal for use under raised floors and areas where plenum rated cable is required.

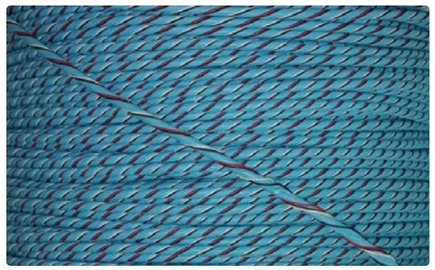
Features

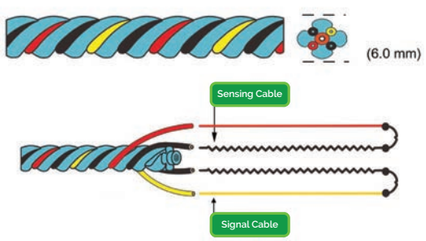
- Strong & Durable
- Expansion with mating end connectors
- Available in pre-measured and custom lengths with pre-installed end connectors.
- Plenum to CL2P per UL rated & UL910 listed
- RoHS compliance to EU Directive 2011/6S/EU
- Non-flame propagating & Self-extinguishing
- Continuity and signal wire: 2 x 28AWG black conductive ETFE insulation
- Sensing wire: 2 x 24AWG ETFT insulation
- Core: Fire resistance Fluoropolymer

Operating Environment

Operating Temperature : -20°C to 75°C
Humidity : 5% to 95% non condensing
Storage Environment : -20°C to 75°C

Chemical Sensing Cable (C-CSC-XX)





Used to reliably sense the presence of chemical liquids. The cables can endure and function properly after seven days exposure to the following.

- Sulfuric Acid (98%)
- Nitric Acid (50%)
- Hydrochloric Acid (37%)
- Sodium Hydroxide (10%)

Chemical sensing cable are available in standard and custom length. Each end of the cable contains mating connectors for making quicker and easier installation or extension of existing leak detection system.

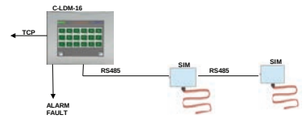
Features

- Strong & Durable
- Expansion with mating end connectors
- Available in pre-measured and custom lengths with pre-installed end connectors.
- Plenum to CL2P per UL rated & UL910 listed
- RoHS compliance to EU Directive 2011/6S/EU
- Non-flame propagating & Self-extinguishing
- Continuity and signal wire: 2 x 28AWG black conductive PVDF insulation
- Sensing wire: 2 x 24AWG PVDF insulation
- Core: Fire resistance Fluoropolymer

Operating Environment

Operating Temperature : -20°C to 75°C
Humidity : 5% to 95% non condensing
Storage Environment : -20°C to 75°C

LEAK DETECTION MASTER MODULE (C-LDM-16)



Features

- The C-LDM-16 module monitors up to 16 remote Sensor Interface modules (SIM)
- Icon base GUI display for ease of operation
- When liquid is detected by any of the sensors, the C-LDM-16 will sounds an alarm and displays the circuit identification and location of the leak on the display.
- Standard 7" Display with option of 10"
- A simple map showing where are the sensors being installed (require field calibration)
- The leak detection event is logged to a non-volatile event history file
- All status and event information is made available via the front touch screen
- Modbus TCP provide communication to BMS System and external devices
- Universal power supply for 110/220 Vac 50/60 Hz
- Provide Alarm / Fault Relay outputs

Locating Panel (C-LP)

Leak Detection System uses Locating Panel (C-LP) as a Sensor Interface Module (SIM) to detect the liquid leak and communicates to BMS System. The alarms, faults and power LEDS display the current system status while the built-in distance locating feature can identify where the leaks occurs.

Features

- Max. length of sensing cable connected up to 900m
- Max. connected length of jumper cable connected up to 500m.ors
- Leakage alarm data log
- Accuracy : ± 0.5m
- Built in RS485
- Sound alarm : 90 dB max
- Temperature : 0°C to 45°C
- Humidity : 5% to 95% non-condensing
- Altitude : 3000m max
- Storage : -40°C to 60°C
- Power supply : 12VAC / 24VDC 3W
- Serial interface : RS485 modbus
- Relay output : AC125V, 0.5A OR DC24V, 1A 1 no. of NO & 1 no. of NC

Non Locating Panel (C-NP)

LEAD Leak Detection System uses non locating panel to detect liquid leak and communication to BMS system. The alarms, faults and power LEDS display the current system.

Features

- Max. length of sensing cable connected up to 200m.
- Max. connected length of jumper cable connected up to 100m.
- Accuracy : ± 0.5m
- Built in RS485 modbus
- Sound alarm : 90 dB max
- Temperature : 0°C to 45°C
- Humidity : 5% to 95% non-condensing
- Altitude : 3000m max
- Storage : -40°C to 60°C
- Power supply : 12VAC / 24VDC 3W
- Relay output : 1 no. of NO