



专注液漏检测报警系统 20年

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leaksense® 立科
LIQUIDS LEAKAGE DETECTION SYSTEM
液 漏 检 测 报 警 系 统

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LIQUIDS LEAKAGE DETECTION SYSTEM
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泄漏发生，即刻定位



Leaksense Find Leaks

HAZARDS OF LIQUID LEAKAGE

In precision technology environments such as computer rooms, semiconductor factories, and communication & network centers, liquid leakage is not an ordinary accident but a systemic disaster that can trigger a chain reaction.

Even a minor leak can cause severe consequences:

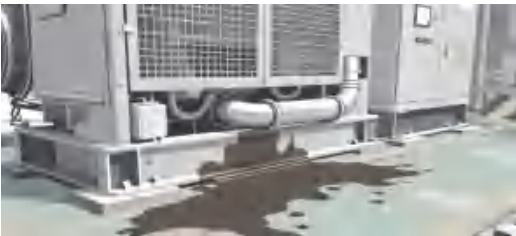
- Short circuits and equipment damage
- Electrical fires and explosions
- Large-scale production downtime
- Chemical corrosion and component failure
- Toxic chemical hazards

According to an analysis by global data center research institutions, liquid leakage accounts for nearly 35% of physical environment accidents. In the semiconductor industry, which uses a large amount of hazardous chemicals, the cost of a single leakage incident can be more than 10 times that of a typical computer room accident.

In 2017, a coolant leak at the Paris Data Center damaged storage arrays, causing over 5,000 websites to be unavailable for 24 hours.

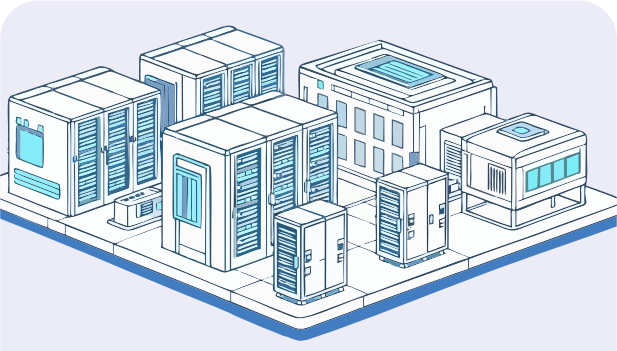
In 2021, a seawater and hydrogen fluoride leak at a South Korean SK hynix facility caused equipment corrosion and personnel injuries. While it did not directly halt production, the downtime losses would have reached millions of dollars per hour if the leak had occurred in an operational area.

Therefore, deploying a liquid leakage detection and early warning system in critical locations to detect and contain leaks early is particularly important and essential.



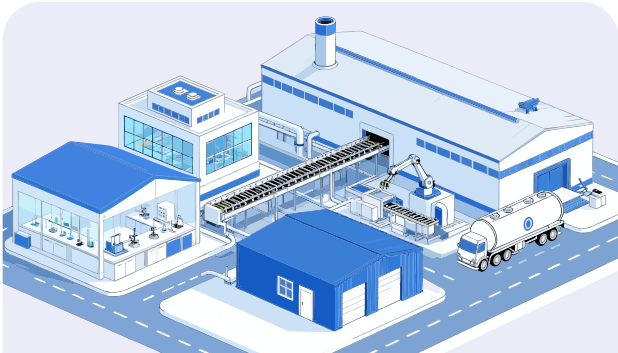
Semiconductor and Clean Rooms

The clean production process of semiconductors requires a large amount of chemical liquids, such as UPW (Ultra Pure Water), hydrofluoric acid (HF), isopropyl alcohol (IPA), developing solutions like TMAH, hydrogen peroxide (H₂O₂), and acid-alkali wastewater. Even a minor leakage can lead to serious consequences, including wafer scrapping, equipment damage, and personnel injuries. Therefore, preventing leakage incidents is a key priority during the operation of production lines.



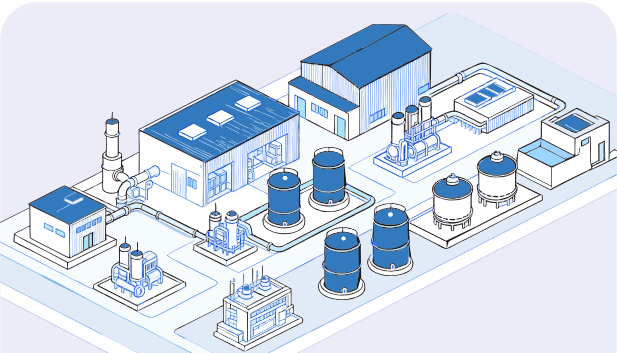
Computer Rooms and Data Centers

Most data centers adopt water cooling systems, with chilled water pipes running throughout the facility. These systems feature numerous pipe joints and valves, which increases the number of potential leakage points. Water leakage in computer rooms can directly cause electrical short circuits, fire risks, and battery explosions. This leads to server outages, business interruptions, and data loss, with economic losses that are difficult to quantify. Therefore, the environmental monitoring system for computer rooms must be equipped with a liquid leakage detection system.



Generators, Laboratories, Air Conditioners, Batteries, etc.

Diesel generator sets have numerous oil circuits and sealed pipes, making them prone to oil leakage during operation. Electrolyte leakage is also unavoidable in UPS battery banks. Water leakage from air conditioning units, often caused by condensate blockages, is a frequent occurrence. In laboratories, the leakage of various chemical reagents is typically a source of high-risk incidents. Therefore, in critical equipment and important locations, early warning of liquid leakage risks can prevent potential disasters before they occur.



Oil and Gas Industry

In oil refineries and petrochemical enterprises, various types of oil and liquids—including crude oil, gasoline, diesel, aviation kerosene, and heavy oil—are stored and transported in large quantities. Once an oil leakage occurs, it can easily trigger fires and explosions, which not only destroy factory facilities but also cause heavy casualties and long-term pollution to the surrounding environment, with extremely high cleanup costs. Oil leakage detection and alarm systems are an effective preventive measure.

ABOUT LEAKSENSE

The LIKO LeakSense Liquid Leak Detection and Alarm System was founded in 2006 and is a subsidiary of LIKO (Guangzhou) Testing Technology Co., Ltd. As an early professional manufacturer of liquid leak detection systems in China, we focus on the design, R&D, production, sales, installation, and maintenance of liquid leak alarm systems. All LIKO products are Made in China and sold globally, holding a leading position in the Chinese market.

In critical industrial and commercial environments, leak detection and alarm systems are essential. We provide superior leak detection systems to protect your key equipment. Adhering to the development philosophy of “Technology-based”, LIKO develops the safest and most reliable liquid leak detection systems for various industrial and commercial applications.

LIKO offers a one-stop leak detection system solution, designing professional and reasonable implementation plans tailored to different application environments and project requirements. Whether it is a single-point detection and alarm, large-scale networked detection, or a comprehensive plant-wide system, LIKO can provide complete product design, installation, and service support.

With a well-trained and knowledgeable team as our foundation, and relying on industry-leading liquid leak detection technology, we deliver reliable solutions to our customers. Our core businesses focus on three key areas: water leak detection, acid leak detection, and hydrocarbon leak detection. We also offer OEM customization services to meet the needs of various industry application scenarios.



20 YEARS EXPERTISE



35+ GLOBAL REACH



5 YEAR WARRANTY



8,000+ TRUSTED PARTNERS



CUSTOM DESIGN & MANUFACTURING

LEAKSENSE

Leading Domestic Brand, Premium Quality

OWN BRAND

Founded in 2006, LEAKSENSE is an early industry pioneer in China. We evolved from technology introduction to independent innovation, guided by “Established by Technology, Driven by Innovation”. Our goal is to lead the industry.

OUR DESIGN

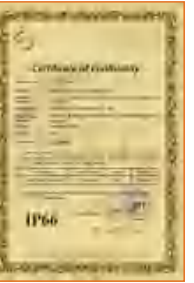
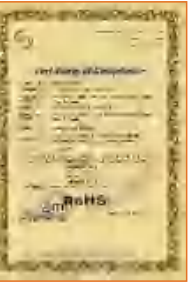
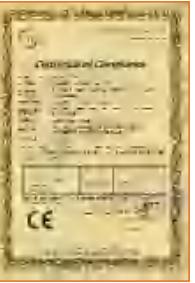
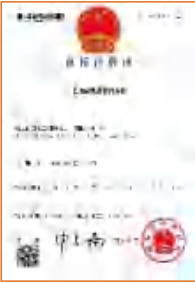
Our professional team delivers optimal solutions for every project. We support the entire process of leak detection system design, supply and commissioning, with customized scenarios tailored to your needs.

OUR FACTORY

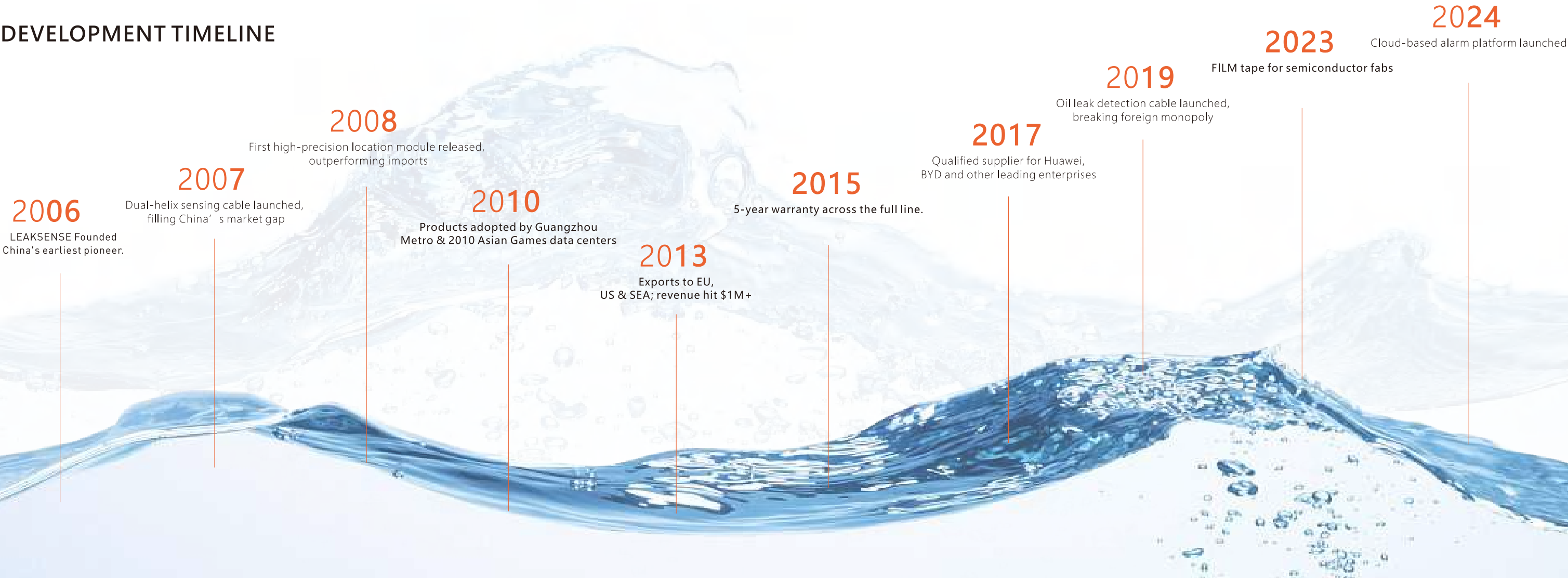
We operate an independent manufacturing facility. We use eco-friendly, cost-saving technologies and maintain ample warehousing to ensure on-time project delivery.

5-YR WARRANTY

We are the first in the industry to offer a 5-year warranty. This ensures stable post-installation performance. We protect your critical systems with a responsible approach, as your trusted partner.



DEVELOPMENT TIMELINE



ALARM MODULE



Point-type Sensing



Location Detection



Multi-channel Input



Remote Alarm



l e a k s e n s e



Asd16 Point type waterimmersion sensor

- Sealed waterproof enclosure, built-in probe
- Stepless sensitivity adjustment
- Auto alarm reset
- Built-in alarm LED & buzzer
- Relay or RS485 output optional

This device features a fully sealed waterproof enclosure with built-in detection probes, supporting ultra-wide sensitivity stepless adjustment and automatic alarm reset. It is equipped with alarm indicators and buzzers, with optional relay output or RS485 communication.

Aod14 Photoelectric leakage detection module

- Fully sealed, washable & reusable
- Infrared probe, $\leq 1s$ detection
- Floor/tray mount, for cable-inaccessible zones
- Built-in alarm, ready for standalone operation



It adopts a fully sealed structure, is easy to clean and can be reused. It is equipped with an infrared photoelectric probe with a detection response as fast as 1 second. It can be installed on the floor or tray, especially suitable for areas where detection cables are difficult to install. It has a built-in alarm indicator light and buzzer and can be used independently on site.

ASD16

Point type waterimmersion sensor



LD100

Alarm module(Nolocating)



LD100

Alarm module(Nolocating)

- Compatible with detection cables, electrodes and other sensors
- Relay output and RS485 PC communication
- Ultra-wide sensitivity with stepless adjustment
- Max detection cable length: 500 meters
- One-click mute, auto/manual alarm reset

It is compatible with various sensors such as detection cables and electrodes, supports relay output and RS485 computer communication, allows ultra-wide sensitivity stepless adjustment, has a maximum detection cable length of up to 500 meters, and features one-button mute as well as automatic/manual alarm reset.

LD200

Alarm module(Nolocating)

- Compatible with detection cables, electrodes and other sensors
- Dual relay output and RS485 communication
- Ultra-wide sensitivity with stepless adjustment
- Manual/auto dual reset modes
- 0~180 seconds adjustable alarm delay output

This device is compatible with various sensors such as detection cables and electrodes, supports dual - group relay output and RS485 communication, features ultra - wide sensitivity stepless adjustment, manual/automatic dual reset modes, and has an adjustable alarm delay output of 0 - 180 seconds.





ATL700 Alarm module(Locating)

- Detects water, acid, alkali & oil leaks – versatile use
- 1500m cable, LED leak location + relay alarm
- Networkable for protocol-based centralized remote monitoring
- Auto address allocation + PC config, DIP-switch-free deployment
- Wall or DIN-rail mount options

Supports water, acid, alkali and oil leakage monitoring with wide applicability; 1500m detection cable, LED display of leakage position and relay alarm for rapid response; operable independently or in network, enabling convenient remote control via protocol-based connection to centralized monitoring; software address assignment + PC configuration without DIP switches for efficient deployment, with wall-mounted or rail-mounted options.



ATL700

Alarm module(Locating)





LD240 Alarm module(Nolocating)

- 4-core cable with breakage detection for stability
- Auto/manual reset for flexible use
- Stepless adjustment for diverse detection needs
- RS485 for remote alarm & control
- LCD display for real-time status

Compatible with four - core detection cables, it supports disconnection monitoring to ensure line stability. Optional manual/automatic reset flexibly adapts to scenarios. Wide - range stepless adjustment meets diverse detection needs. Relays and RS485 communication enable remote alarm and device control. The LCD screen displays the device status in real - time.

LD400 Alarm module(Nolocating)

- 4 independent channels, 500m/channel, total 2000m coverage
- Independent sensitivity & alarm per channel, flexible configuration
- Standard protocol for remote alarm & device linkage
- LCD real-time status display, indicator + button control

Four - channel independent detection (each channel has a 500 - meter cable, with a total length of 2000 meters covering large - area and multi - regions). Each channel supports independent sensitivity adjustment and alarm output. Standard communication protocols enable remote alarm and equipment linkage control. The LCD screen displays channel status in real - time, and the operation with indicators and buttons is convenient.



MD1600

16-Channel Detection Module



LD300 Alarm module (Nolocating)

- Dual channels: 500m/channel, supports multiple leak probes
- Relay + RS485 for remote alarm & seamless device management
- 12-24VDC/AC wide voltage input for industrial power
- Compact ABS wall-mount, pluggable terminals for fast deployment

The dual - channel supports a single - route 500 - meter cable, is compatible with various water leakage probes. Through relay contacts + RS485 communication, it realizes remote alarm and equipment management. With 12 - 24VDC/AC wide - voltage input, it adapts to industrial centralized power supply scenarios. The small - sized ABS wall - mounted design and plug - in terminals enable efficient deployment.



MD1600 Alarm module (Nolocating)

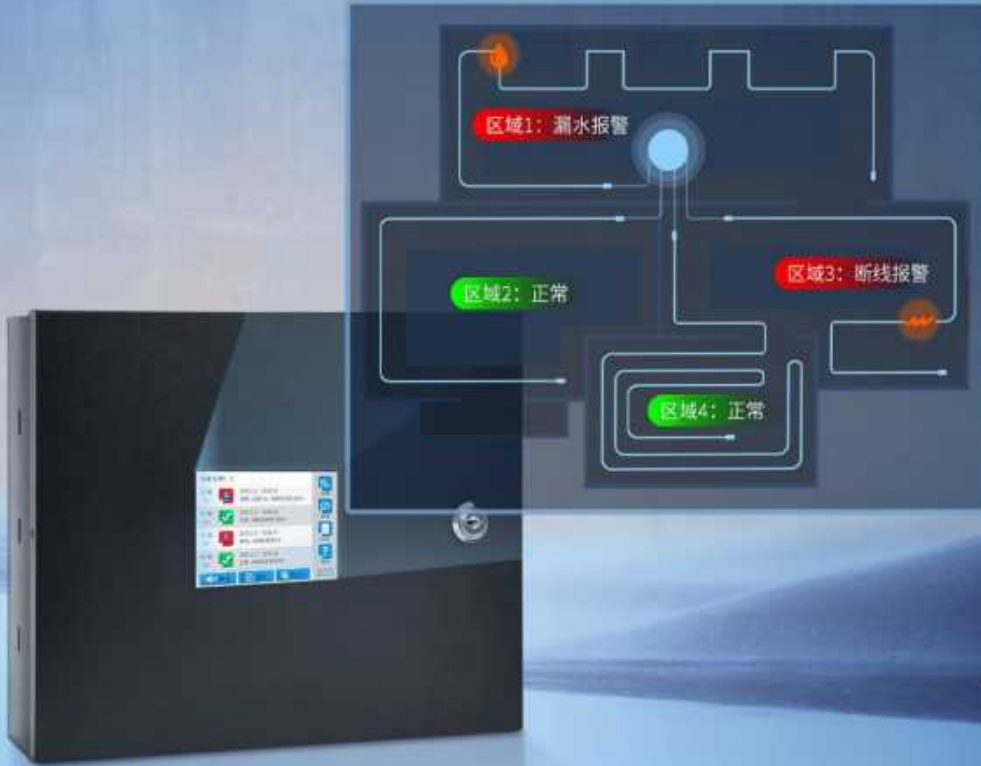
- 16 independent detection zones and 16 corresponding outputs
- 16-channel ultra-wide sensitivity with independent adjustment
- Customizable panel indicator stickers available based on site layout
- Alarm LEDs display status for each detection zone
- MODBUS communication protocol enables remote alarm and control

It has independent 16-channel detection and output functions, supporting independent adjustment of 16-channel ultra-wide sensitivity. It can customize panel indicator stickers according to the on-site floor plan. The alarm LED lights display the status of each detection area. Through the MODBUS communication protocol, remote alarm and control are achieved.



ATL1000

4-Channel Location Detection Module



ATL1000

Alarm module(Nolocating)

- Detects water, acid, alkali & oil leaks – versatile use
- 4 independent alarm outputs for multi-zone concurrent detection
- 1500m max cable per channel for wide coverage
- Touchscreen for intuitive setup & real-time status

Supports monitoring of water, acid - alkali, and oil leakage, with wide application scenarios. 4 independent alarm outputs enable concurrent detection in multiple areas. Each channel can connect to a cable of up to 1500 meters, providing wide coverage. The touch screen supports function setting and real - time display of device status, ensuring convenient operation.





AOP400 Alarm module(Nolocating)

- Compatible with detection cables, electrodes and other sensors
- Supports relay output and RS485 communication
- 4 independent channels for liquid leak detection
- Dual reset modes: manual and automatic

It features independent 4-channel liquid leakage detection, is compatible with various sensors such as detection cables and electrodes, supports relay output and RS485 communication, and has manual/automatic dual reset modes.



MX1600 Alarm module(Nolocating)

- Compatible with detection cables, electrodes and other sensors
- Supports relay output and RS485 communication
- 16 independent channels for liquid leak detection
- WIFI wireless alarm and built-in intelligent voice alarm

It has 16-channel independent liquid leakage detection, is compatible with sensors such as detection cables and electrodes, supports relay output, RS485 communication, as well as WIFI wireless alarm and intelligent voice alarm functions.

ATS12

Multi-Zone Monitoring & Alarm Host



LEAKSENSE

Alarm module Comparison Chart



LIQUID LEAK DETECTION
TRUST LEAKSENSE

ITEM NAME	ASD16	AOD14	LD100	LD200	LD240	LD300	LD400	MD1600	ATL700	ATL700W	ATL1000
Detection Loop	1	1	1	1	1	2	4	16	1	1	4
Sensor Type	Detection Probe	Photoelectric Probe	Detection Cable/Probe	Detection Cable/Probe	Detection Cable/Probe	Detection Cable/Probe	Detection Cable/Probe	Detection Cable/Probe	Detection Cable	Detection Cable	Detection Cable
Sensor Model	Built-in Probe	Built-in Probe	Compatible with All Models	Compatible with All Models	Compatible with All Models	Compatible with All Models	Compatible with All Models	Compatible with All Models	ASC3100、ASC6100 ASC9100、ASC9500	ASC3100、ASC6100 ASC9100、ASC9500	ASC3100、ASC6100 ASC9100、ASC9500
Max Cable Length	/	/	500m	500m	500m	500m per Loop	500m per Loop	500m per Loop	1500 meters	1500 meters	1500 meters per loop
Leak Accuracy	Single-Point Alarm	Single-Point Alarm	Single-Loop Alarm	Single-Loop Alarm	Single-Loop Alarm	2-Loop Alarm	4-Loop Alarm	16-Loop Alarm	±1 meter Location detection and alarm	±1 meter Location detection and alarm	±1 meter Location detection and alarm
Sensitivity	Adjustable	/	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable
RS485 Comm	None	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Relay Outputs	1 Leak Alarm	1 Leak Alarm	1 Leak Alarm	2 Leak Alarms	2 Leak Alarms 1 Cable Break Alarm	1 Leak Alarm per Loop	1 Leak Alarm per Loop 1 Total Leak + Cable Break Alarm	1 Leak Alarm per Loop 1 Total Leak + Cable Break Alarm	1 sets of alarm outputs (configurable)	2 sets of alarm outputs (configurable)	1 set of leak alarm per loop 1 set of total leak + 1 set of total wire break
Reset Mode	Auto	Auto	Auto	Auto + Manua	Auto + Manual	Auto + Manual	Auto	Auto	Automatic	Automatic	Automatic
Alarm Delay	/	/	/	0-180s Adjustable	/	0-180s Adjustable	/	/	/	/	/
Alarm Indication	LED Indicator	LED Indicator	LED Indicator	LED Indicator	LED Indicat LCD Display	LED Indicator	LED Indicator LCD Display	LED Indicator	LED indicator lights LCD display screen	LED indicator lights LCD display screen	LED indicator lights LCD display screen
IP Rating	IP66	IP66	/	IP65	IP65	/	IP65	/	/	IP65	/
Power Input	12-24VDC/AC	12-24VDC/AC	12-24VDC/AC	12-24VDC/AC or 220VAC	12-24VDC/AC	12-30VDC/AC	12-24VDC/AC	12VDC	12-24VDC or24VACor220VAC	12-24VDC or24VACor220VAC	12-24VDC/AC

S E N S E C A B L E



Water sense



Acid sense



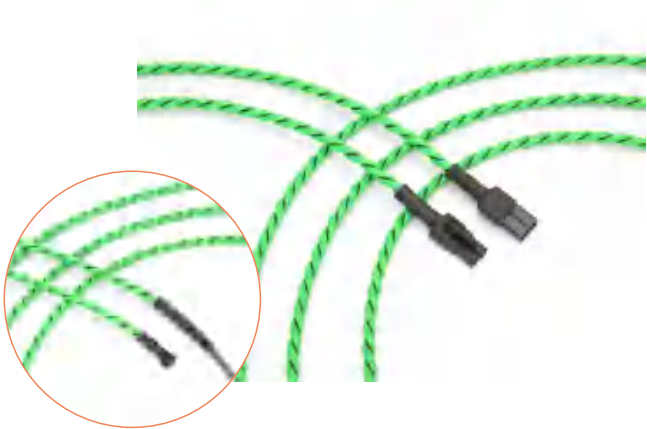
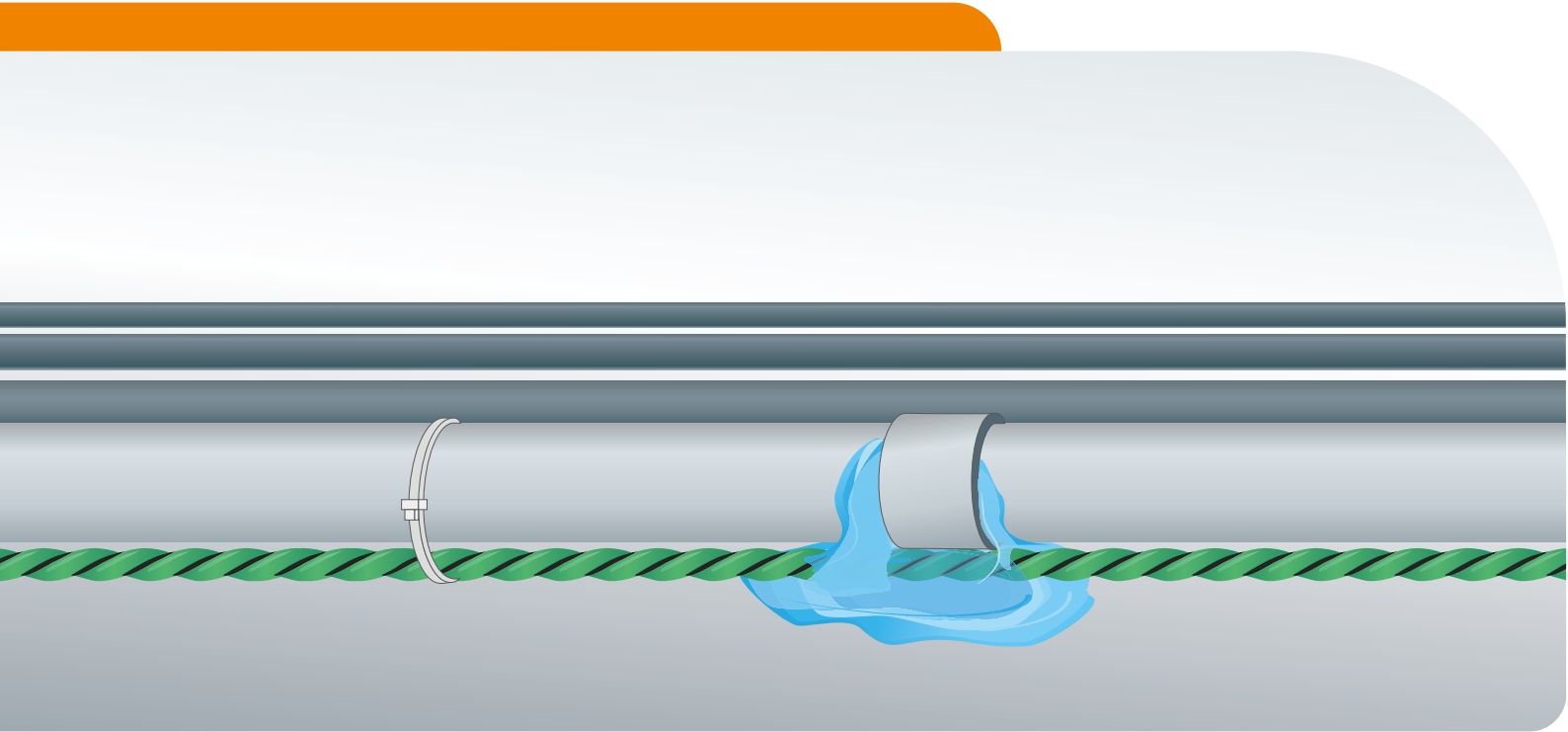
Oil sense



Solvent Sensing



l e a k s e n s e

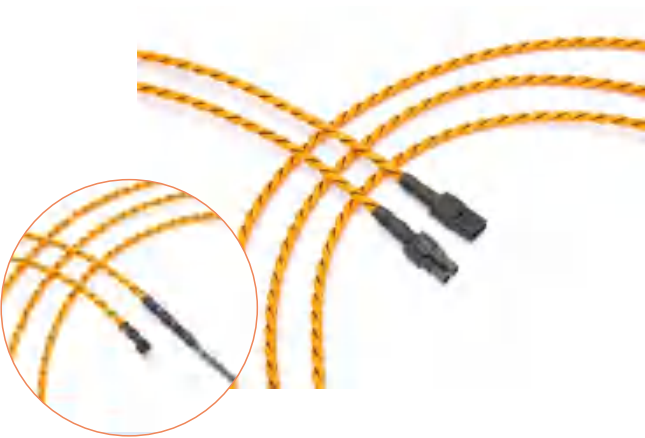


ASC1100 Water sense cable

- Detects conductive liquid leaks, with timely and accurate response to water leaks.
- Braided nylon jacket, wear-resistant and robust, with no exposed metal, corrosion-resistant, and suitable for harsh environments.
- Compatible with mainstream alarm control panels, with sub-second response time.
- Field-cutable bulk bare cable / pre-terminated cable with connectors / breakout cable KIT set.

ASC2100 Water sense cable

- Detects conductive liquid leaks and triggers an alarm upon connection to the main control unit.
- Polymer jacket, suitable for harsh environments.
- Compatible with mainstream alarm control panels, with sub-second response, rapid drying, and reset capabilities.
- Field-cutable bulk bare cable / pre-terminated cable with connectors / breakout cable KIT set.



WATER SENSE CABLE(LOCATING)



ASC6100
Water sense cable(Locating)

- Detects conductive liquid leaks and triggers an alarm upon connection to the main control unit.
- Conductive polymer jacket, suitable for harsh environments.
- Compatible with main control units, with sub-second response and rapid reset capabilities.
- Precisely locates leaks with an accuracy down to the meter.
- Field-cutable bulk bare cable / pre-terminated cable with connectors / breakout cable KIT set.



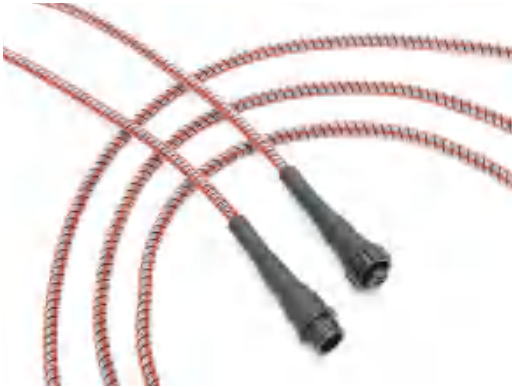
ASC3100
Acid sense cable(Locating)

- Detects conductive liquid leaks and triggers a timely alarm when connected to the main control unit.
- Teflon double-helix structure, corrosion-resistant, and suitable for harsh environments.
- Compatible with mainstream alarm control panels, with sub-second response, rapid drying, and reset capabilities.
- Accurately locates the exact position of a leak, with precision down to the meter.
- Field-cutable bulk bare cable / pre-terminated cable with connectors / breakout cable KIT set.

ASC6100-HP
Water sense cable(Locating)

- Detects conductive liquid leaks and triggers an alarm upon connection to the main control unit.
- Braided jacket, suitable for use in metallic environments.
- Compatible with main control units, with sub-second response and rapid reset capabilities.
- Precisely locates leaks with an accuracy down to the meter.
- Field-cutable bulk bare cable / pre-terminated cable with connectors / breakout cable KIT set.





ASC9100 Oil sense cable(Locating)

- The sensing line physically expands upon contact with oil, causing a change in loop resistance and triggering the alarm control unit.
- Fluoropolymer braided jacket construction, with no exposed metal on the cable, offering corrosion resistance and oxidation resistance.
- Compatible with mainstream alarm control panels, detects hydrocarbon liquids such as diesel, gasoline, and lubricating oil, and does not react with water.

Accurately locates the exact position of a leak, with precision down to the meter.

Field-cutttable bulk bare cable / pre-terminated cable with connectors / breakout cable KIT set.

ASC9500 Solvent Sensing Cable(Locating)

- The sensing line swells upon contact with solvents, causing a change in resistance to trigger an alarm.
- Radiation cross-linking and conductive polymer technology, providing resistance to corrosion and interference.
- Compatible with main control units, detects a wide range of liquid organic solvents.
- Precisely locates leaks with an accuracy down to the meter.
- Supports on-site flexible cutting and routing of cables.



Detection Cable	Representative Materials Detected	Standard Response Time at 77°F (25°C)
ASC9100 Oil sense cable (Locating) (For response times of other oil liquids, please inquire for details.)	Gasoline	< 3 minutes
	Diesel(0#)	< 10 minutes
	Heat Transfer Oil (Transformer Oil)	< 30 minutes
	Crude Oil	60 minutes
	Lubricating Oil (Engine Oil)	8 hours
	Cooling Oil	15-20 hours



Detection Cable	Representative Materials Detected	Typical Response Time at 68°F (20°C)
ASC9500 Solvent Sensing Cable (Locating) Response time is measured on a 50 mm (2 in) cable immersed in liquid and varies with operating temperature. For other temperatures or liquids, contact the factory. Prolonged exposure to ketones may degrade sensor cable performance.	Toluene	10 minutes
	Dichloromethane (Methylene Chloride)	5 minutes
	1,1,1-Trichloroethylene (TCE)	8 minutes
	Trioxane	20 minutes
	Methyl Ethyl Ketone (MEK)	10 minutes
	Acetate	10 minutes
	Isopropyl Alcohol (Anhydrous)	30 minutes
	N-Methyl-2-pyrrolidone (NMP)	60 minutes
	Ethylene Glycol	24 hours



LEAKSENSE

Detection cable Comparison Chart

PRODUCT NAME	ASC1100-HP	ASC1100	ASC2100	ASC3100	ASC6100	ASC6100-HP	ASC9100	ASC9500
Detected Liquid	Water	Water	Water	Acid, Alkaline	Water	Water	Gasoline, Diesel, Lubricating Oil	Various organic solvents
Number of Cores	2	2	2	4	4	44	4	4
Cable Weight	5 g/m	30 g/m	30 g/m	38 g/m	38 g/m	50 g/m	80 g/m	85 g/m
Cable Color	Black	Green, White	Orange, Blue	Light Brown	Blue, Yellow, Green	Blue, Yellow, Green	Red & White	Black & White
Cable Location	/	/	/	Yes	Yes	Yes	Yes	Yes
Cable Diameter	1.5*2.5 mm	5.5 mm, 4.5 mm	5.5 mm	6 mm	6 mm	6 mm	9.5 mm	10 mm
Breaking Strength	60 kg	60 kg	60 kg	60 kg	60 kg	60 kg	60 kg	60 kg
Cable Material	Braided nylon jacket + tinned copper wire	Nylon jacket + tinned copper wire	Conductive rubber + tinned copper wire	Conductive rubber + tinned copper wire Teflon polymer spool	Conductive rubber + tinned copper wire	Conductive rubber + tinned copper wire Fiber braided jacket	Conductive rubber + tinned copper wire Fluoropolymer braided jacket	Conductive rubber + tinned copper wire Super polymer braided body
Maximum Exposure Temperature	60°C	85°C	85°C	85°C	85℃	85°C	85°C	85°C
Minimum Exposure Temperature	-10°C (no condensation)	-20°C (no condensation)	-20°C (no condensation)	-20°C (no condensation)	-20°C (no condensation)	-20°C (no condensation)	-20°C (no condensation)	-20°C (no condensation)
Fire Resistance Rating	Class 2 pressure ventilation cable	Class 2 pressure ventilation cable	Class 2 pressure ventilation cable	Class 2 pressure ventilation cable	Class 2 pressure ventilation cable	Class 2 pressure ventilation cable	Class 2 pressure ventilation cable	Class 2 pressure ventilation cable
Detection Line Resistance	5 ohms / 100 m	5 ohms / 100 m	5 ohms / 100 m	13 ohms/m	13 ohms/m	13 ohms/m	13 ohms/m	13 ohms/m

