

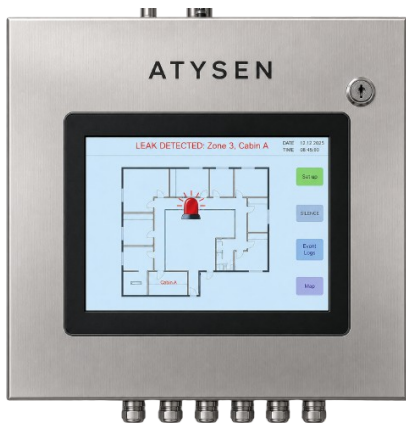


PRODUCT CATALOGUE 2026

Precision Detection Systems

Detect Early. Protect Always.

Advanced European-engineered liquid presence detection for data centers and critical infrastructure. Pinpoint accuracy to mitigate risks before damage occurs.



WHO WE ARE

Protecting critical infrastructure from the first drop.

ATYSEN Technologies specializes in high-sensitivity liquid presence detection systems designed to protect critical infrastructure. We design, manufacture and supply systems that detect and locate water and conductive liquid presence, reducing risk and damage from liquid intrusion in data centres, industrial sites and pipelines.

European

Engineering standards

Global

Support network

Digital

Systems

Pinpoint

Accuracy

Industry Coverage

Protecting critical infrastructure across industrial, commercial and telecom environments.

Data Centres

Protecting critical uptime and expensive IT hardware from water and conductive liquid intrusion.

Power Plants

Specialized monitoring for cooling systems and high-voltage areas.

Commercial Buildings

Safeguarding offices and facilities from undetected plumbing leaks and flooding.

Telecommunications

Securing communication hubs and switching centers against water damage.

HVAC & Chillers

Monitoring condensation pans, cooling towers and chilled water pipes for early warnings.

**Detect Early.
Protect Always.**

Why Choose ATYSEN?

- ✓ **Competitive Pricing**
Competitive global rates with superior quality.
- ✓ **Stringent Quality Control**
Designed in Europe under rigorous standards.
- ✓ **Smooth Installation**
Digital systems designed for rapid deployment.
- ✓ **Superior Support**
Local support backed by our product engineering team.
- ✓ **Extensive 3-Year Warranty**
Industry-best coverage for peace of mind.

HOW IT WORKS

One connected system, from sensor to BMS.

ATYSEN products work together as a fully digital leak detection network. Sensing cables and point sensors detect liquid at the source; Sensor Interface Modules identify leaks and cable faults and can be daisy-chained to cover large areas; the Intelli Panel maps every event to a zone and reports it to your Building Management System.



Our Services

Comprehensive support for your liquid presence detection infrastructure.

System Design

01

Customized layout planning and sensor placement to ensure 100% coverage of your critical assets.

Commissioning

02

On-site digital system configuration to guarantee precise detection and alert accuracy.

Support

03

Periodic maintenance of leak detection systems to ensure peak performance and reliability.

PRODUCT 01 Water Leak Sensor Interface Module

Sensor Interface Module

MODEL AT-WLD-24V-CTR

- ✓ Detects water, conductive liquids and PG25
- ✓ Instant leak detection and indication
- ✓ Superior waterproof enclosure for harsh conditions



Description

The AT-WLD-24V-CTR Water Leak Sensor Interface Module is a high-performance digital unit engineered for precise and reliable water and conductive liquid leak detection in critical infrastructure. Designed for integration with advanced monitoring systems such as ATYSEN Intelli Panels, it provides instant detection, accurate fault identification, visual indication and seamless communication. Manufactured from superior materials, it is built to withstand harsh industrial conditions while ensuring long operational life and minimal maintenance.

Typical Applications

- Data centers and server rooms
- Drip trays
- CDU units
- Floors
- Flat containment areas
- Pump skids

Key Features & Advantages

- **Precision Leak Detection:** Instantly detects the presence of water or conductive liquids
- **Accurate Identification:** Accurate identification of cable break faults
- **Daisy Chain:** Multiple modules can be daisy-chained to cover very large areas; only the first module in the chain needs a power supply
- **Digital System Integration:** Fully compatible, seamless communication with ATYSEN digital panels
- **Rugged Industrial Construction:** IP67 rated (dust & water protection)
- **Reusable and Low Maintenance:** Designed for repeated use without performance degradation
- **Dedicated LEDs:** For Leak, Cable Break and RS485 communication status
- **BMS Connectivity:** Sends real-time alarms and status to Building Management Systems as needed
- **High Sensitivity:** Immediate response on contact with water or conductive liquids. Sensor drying time < 5 seconds
- **Fast Recovery Performance:** Automatic reset within seconds after leak removal

Technical Specifications

Parameter	Specification
Type	24 V input, Digital Water Leak Sensor Controller
Response Time	Instant
Daisy Chain Capability	Yes
Reset / Drying Time	< 5 seconds
Output	RS485 connectivity to Panel / BMS
Sensing Cable Connectivity	4 core
Maintenance	Low maintenance
Panel Compatibility	ATYSEN Panels (AT-MTP-SA-107/110 ; AT-MTP-RD-107/110)
Material	Industrial grade plastic
Protection Rating	IP67
Supports PG25	Yes
Reusability	Yes
Corrosion Resistance	Resistant to certain corrosion
Operating Environment	Industrial / commercial

Mounting Options

- Attachable with 3M tape
- Mounting option available

System Capabilities

Fault Identification

- ✓ Leak detection
- ✓ Cable break detection
- ✓ Communication fault
- ✓ Common system fault

Smart Maintenance Mode

- ✓ Once a leak or break is resolved, the system automatically restores normal monitoring after a defined time

PRODUCT 02 Water & Conductive Liquid Leak Detection Cable

Leak Sensing Cable

MODEL AT-MDC-3/7/10/15/20 Customized lengths available

- ✓ Supports water, conductive liquids and PG25
- ✓ Instant leak detection
- ✓ Advanced polymer material



Description

The ATYSEN AT-MDC-3/7/10/15/20 is a high-performance water and conductive liquid leak detection cable, designed to accurately detect liquid leakage at any point along its length. Used with an ATYSEN-compatible leak detection module, the system provides real-time visual indication, enabling a faster response and minimizing damage from leakage. The cable is manufactured using conductive polymerization technology and advanced polymer materials, ensuring excellent mechanical strength, corrosion resistance and long service life. Its spiral construction with no exposed metal parts allows prolonged use even in harsh or corrosive environments.

Typical Applications

- Data centers & server rooms (IDC)
- Communication base stations
- Control rooms & electrical panels
- Nuclear power plants
- Museums & archives
- Hospitals & laboratories
- Warehouses & commercial buildings
- Office buildings and utility areas

Key Features & Advantages

- **Rapid Leak Detection:** Instantly detects water or conductive liquid along the entire length of the cable
- **Accurate Leak Location:** When connected to an ATYSEN Sensor Interface Module, leaks are detected and visibly indicated on the module
- **Cable Integrity Monitoring:** Detects any break, cut or open circuit in the cable
- **Fast Reset & Reusability:** Non-absorbent construction allows reset within seconds after the liquid is removed
- **Low-Halogen Construction:** Manufactured with low-halogen materials for enhanced fire safety
- **Low Smoke Emission:** Lower smoke optical density and slower dispersion under high heat than standard cables
- **High Sensitivity:** Immediate response on contact with water or conductive liquids
- **Uniform Resistance:** Ensures stable and reliable positioning accuracy
- **Robust Spiral Structure:** Enhances mechanical strength and reduces false alarms
- **No Exposed Metal:** Suitable for corrosive and humid environments
- **Low False Alarm Rate:** High resistance to electromagnetic interference

Technical Specifications

Parameter	Specification
Detection Type	Instant water leak detection
Length	3, 7, 10, 15, 20 meters; custom lengths available
Detection Principle	Resistive change based on conductive liquid contact
Resistance Uniformity	Error ≤ 0.5%
Diameter	5.5 mm
Construction	4 core, spiral structure, no exposed metal
Sensing Wire	Spirally wound, 2 wires
Continuity Wire	Spirally wound, 2 wires
Material	Jacketed conductive polymer
Reusability	Yes
Corrosion Resistance	Resistant to slight corrosion
Operating Environment	Indoor / semi-harsh industrial environments. Temperature up to 75°C

Product Identification Codes

Code	Description
AT-ALC-C	Leak Detection Cable for Water and Conductive Liquids, custom length
AT-MDC-3	3 meters - Leak Detection Cable for Water and Conductive Liquids
AT-MDC-7	7 meters - Leak Detection Cable for Water and Conductive Liquids
AT-MDC-10	10 meters - Leak Detection Cable for Water and Conductive Liquids
AT-MDC-15	15 meters - Leak Detection Cable for Water and Conductive Liquids
AT-MDC-20	20 meters - Leak Detection Cable for Water and Conductive Liquids

PRODUCT 03 Digital Leak Detection Panel

Intelli Panel

AT-MTP-SA-107

7-inch screen · Non-redundant

AT-MTP-SA-110

10-inch screen · Non-redundant

AT-MTP-RD-107

7-inch screen · Redundant

AT-MTP-RD-110

10-inch screen · Redundant

- ✓ Certified touch screen (CE, UL, ATEX)
- ✓ Available in redundancy-capable configuration
- ✓ User-friendly zone / area setup
- ✓ Inbuilt audible alarm



Description

The Intelli Panel series Digital Leak Detection Panel is an advanced digital control and monitoring system designed for precise leak detection and fault localization. It serves as the central hub for ATYSEN digital sensing solutions and provides continuous monitoring of water, acid, base and hydrocarbon leaks. Engineered for mission-critical environments such as data centers, industrial plants, commercial facilities and fuel storage areas, Intelli Panel ensures reliable performance, real-time fault reporting and seamless Building Management System (BMS) integration.

Typical Applications

- Data centers and server rooms
- Oil and fuel storage facilities
- Telecom equipment rooms
- Electrical control panels
- Hospitals and laboratories
- Commercial buildings
- Utility areas and plant rooms

Key Features & Advantages

- **Dynamic Zone / Area Layout:** Define zones and areas of the building on screen
- **Continuous Monitoring:** Monitors water leak sensing cables and probes around the clock
- **Multi-Detection Capability:** Detects and reports simultaneous multiple leaks and cable breaks in the network
- **Inbuilt Audible Alarm:** Built-in audible alarm for easy alerting
- **Precision Leak Detection:** Instantly detects the presence of water or conductive liquid
- **Accurate Identification:** Accurate identification of cable break faults
- **Digital System Integration:** Fully compatible, seamless communication with ATYSEN leak detection interface modules
- **BMS Connectivity:** Sends real-time Leak / Cable Break / Common Fault alarms and status to the BMS, and can trigger external alarms, beacon lights or automatic shut-off systems
- **Rugged Construction:** Stainless steel enclosure for longevity

Technical Specifications

Parameter	Specification
Standard Size (diagonal)	7 inch, 10 inch; larger than 10 inch on request
Resolution	800 x 480 pixels
Touchscreen	Resistive
Input Power	230 V AC
Relays	Leak / Cable Break / Common Faults
Communication	Modbus TCP/IP connection with BMS 1 x Ethernet (10/100) 1 x USB (Host v2.0, max. 500 mA)
Event Logs	Up to 500 events
Internal Memory	4 GB
Material	Stainless steel enclosure
SIM Module Connectivity	Up to 80 in redundancy
Protection Rating	IP52
Corrosion Resistance	Resistant to certain corrosion
Operating Environment	Industrial / commercial. 0° to 55°C (vertical installation)

Mounting Options

- Wall mounting with screws

System Capabilities

Fault Identification

- ✓ Leak detection
- ✓ Cable break detection
- ✓ SIM module overload alert
- ✓ Communication fault and power failure alert
- ✓ Audible alarm

Smart Maintenance Mode

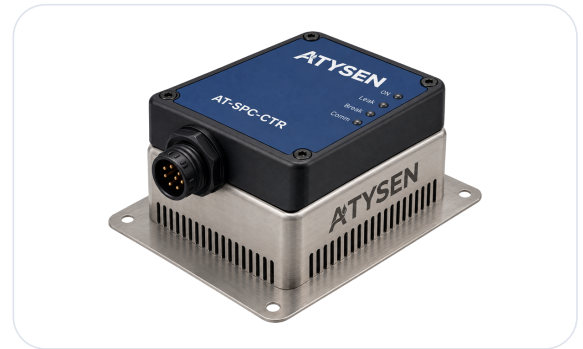
- ✓ Temporarily isolate selected zones without triggering false alarms
- ✓ The system automatically restores normal monitoring after a defined time

PRODUCT 04 Digital Point Leak Sensor

Point Sensor

MODEL AT-SPC-CTR

- ✓ Supports water and conductive liquids including PG25
- ✓ Instant leak detection
- ✓ Stainless steel base
- ✓ Ideal for flat surfaces



Description

The AT-SPC-CTR Point Sensor is a high-performance digital point sensor engineered for precise and reliable liquid leak detection in critical infrastructure. Designed for integration with ATYSEN monitoring panels such as AT-MTP-SA-107 / AT-MTP-SA-110, it provides instant detection, accurate fault identification and seamless communication with Building Management Systems (BMS). Manufactured from superior plastic and stainless steel, it is built to withstand harsh industrial conditions while ensuring long operational life and minimal maintenance.

Typical Applications

- Drip trays
- Floors
- Flat containment areas
- Pump skids

Key Features & Advantages

- **Precision Leak Detection:** Instantly detects the presence of water or conductive liquid
- **Accurate Identification:** Accurate identification of cable break faults
- **Digital System Integration:** Fully compatible with ATYSEN digital panels and controllers, with seamless communication
- **Rugged Industrial Construction:** SS316 stainless steel housing. IP67 rated (dust-tight & immersion protection)
- **Reusable and Low Maintenance:** Designed for repeated use without performance degradation
- **BMS Connectivity:** Sends real-time alarms and status reports to Building Management Systems
- **High Sensitivity:** Immediate response on contact with water or conductive liquids. Sensor drying time < 5 seconds
- **Fast Recovery Performance:** Automatic reset within seconds after leak removal

Technical Specifications

Parameter	Specification
Detection Type	Digital point sensor
Response Time	Instant
Reset / Drying Time	< 5 seconds
Output	Relay activation, BMS reporting
Maintenance	Low maintenance
Controller Compatibility	ATYSEN AT-MTP-SA-107 / AT-MTP-SA-110
Material	Industrial grade plastic, SS316 stainless steel
Protection Rating	IP67
Reusability	Yes
Corrosion Resistance	Resistant to corrosion
Operating Environment	Industrial / commercial

Mounting Options

- Direct attachment to surfaces
- Screw mounting option available

System Capabilities

Fault Identification

- ✓ Leak detection
- ✓ Cable break detection
- ✓ Communication fault
- ✓ Common system fault

PRODUCT 05 Digital Probe Leak Sensor

Point Sensor – Probe Type

MODEL AT-SPC-PR

- ✓ Supports water and conductive liquids including PG25
- ✓ Instant leak detection
- ✓ Stainless steel construction
- ✓ Ideal for hard-to-reach areas



Description

The AT-SPC-PR Point Sensor (Probe Type) is a high-performance digital point sensor engineered for precise and reliable liquid leak detection in critical infrastructure. Designed for integration with ATYSEN monitoring panels such as AT-MTP-SA-107 / AT-MTP-SA-110, it provides instant detection, accurate fault identification and seamless communication with Building Management Systems (BMS). Manufactured from SS316 stainless steel, it is built to withstand harsh industrial conditions while ensuring long operational life and minimal maintenance.

Typical Applications

- Double-wall tank interstitial spaces
- Tank retention dikes
- Secondary containment sumps
- Confined monitoring zones

Key Features & Advantages

- **Precision Leak Detection:** Instantly detects the presence of water or conductive liquid
- **Accurate Identification:** Accurate identification of cable break faults
- **Digital System Integration:** Fully compatible with ATYSEN digital panels and controllers, with seamless communication
- **Rugged Industrial Construction:** SS316 stainless steel housing. IP67 rated (dust-tight & immersion protection)
- **Reusable and Low Maintenance:** Designed for repeated use without performance degradation
- **BMS Connectivity:** Sends real-time alarms and status reports to Building Management Systems
- **High Sensitivity:** Immediate response on contact with water or conductive liquids. Sensor drying time < 5 seconds
- **Fast Recovery Performance:** Automatic reset within seconds after leak removal

Technical Specifications

Parameter	Specification
Detection Type	Digital point sensor – probe type
Response Time	Instant
Reset / Drying Time	< 5 seconds
Output	Relay activation, BMS reporting
Maintenance	Low maintenance
Controller Compatibility	ATYSEN AT-MTP-SA-107 / AT-MTP-SA-110
Material	SS316 stainless steel
Protection Rating	IP67
Reusability	Yes
Corrosion Resistance	Resistant to corrosion
Operating Environment	Industrial / commercial

Mounting Options

- Direct attachment to surfaces
- Screw mounting option available

System Capabilities

Fault Identification

- ✓ Leak detection
- ✓ Cable break detection
- ✓ Common system fault

PRODUCT 06 Intrinsically Safe Water-in-Fuel Detector

Fuel Tank Water Detector

MODEL AT-SPC-DR

- ✓ Detects water in fuel tanks
- ✓ Intrinsically safe design
- ✓ Best suited for diesel and petrol tanks



Description

The AT-SPC-DR Fuel Tank Water Detector is a high-performance digital sensor engineered for precise and reliable detection of water accumulation in fuel tanks. The module is intrinsically safe, making it suitable for hazardous areas. It provides instant detection and seamless communication with peripheral systems through relays. Manufactured from superior industrial-grade materials, it is built to withstand harsh conditions while ensuring long operational life and minimal maintenance.

Typical Applications

- Diesel fuel tanks
- Petrol fuel tanks

Key Features & Advantages

- **Intrinsically Safe Design:** Designed for use in hazardous areas
- **Precision Water Detection:** Instantly detects the presence of water or conductive liquid
- **Rugged Industrial Construction:** SS 304 stainless steel stem. IP66 rated
- **Reusable and Low Maintenance:** Designed for repeated use without performance degradation
- **Alarm Unit Connectivity:** Relays real-time alarm signals to an alarm / alert unit
- **High Sensitivity:** Immediate response on contact with water or conductive liquids. Sensor drying time < 5 seconds
- **Fast Recovery Performance:** Automatic reset within seconds after restart of operation

Technical Specifications

Parameter	Specification
Supply Voltage	24 V DC
Response Time	Instant
Intrinsically Safe	Yes
Reset / Drying Time	< 5 seconds
Output	Provision for audible alarm through relay (1 NO + 1 NC), 1 A @ 240 V AC or 24 V DC
Communication	Modbus RS485
Process Connections	Flanged
Size	25 NB / 50 NB / 80 NB
Rating	150 class
MOC of Stem	SS 304
Diameter of Stem	25 mm
Protection Rating	IP66
Reusability	Yes
Operating Temperature	Up to 60°C
Operating Environment	Commercial / industrial
Enclosure Type	Flameproof and weatherproof
Number of Cable Entries	2
Size of Cable Entries	M20

Operating Procedure

- Place the probe inside the tank, 20–25 mm above the tank bottom
- When water or conductive liquid is detected, the probe signals the electronic controller, which relays the output to the alarm unit

System Capabilities

Liquid Detection

- ✓ Water accumulation detection
- ✓ Conductive liquid accumulation detection

Certifications



PESO



CMRI (CIMFR)

PRODUCT 07 Real-Time Fuel Quality Analyzer

Fuel Analyzer Pro

MODEL AT-FLA-01

- ✓ Real-time fuel property analysis
- ✓ Measures a wide range of parameters
- ✓ 7-inch HMI touchscreen



Description

The ATYSEN Fuel Analyzer Pro is an innovative solution for fuel quality analysis. Tailored for industrial, marine, aviation and data center applications, it integrates advanced sensors, flow control systems and a 7-inch Human-Machine Interface (HMI) display in a single unit to deliver real-time insight into critical fuel properties. The system measures viscosity, density, temperature, dielectric constant, solid contamination and water / moisture content in line with ISO 4406. With robust hardware, a superior user experience and flexible integration, it supports both standalone and integrated setups.

Typical Applications

- Data center HSD facilities
- Diesel generator sets (DG sets)
- Marine and aviation industry
- Oil and gas facilities
- Fuel storage terminals / tank farms
- Defence and airports
- Energy and utilities
- Fuel distribution

Key Features & Advantages

- **Continuous Measurement:** Viscosity, density, temperature, dielectric constant, solid contamination and water / moisture contamination
- **Digital Display and Alarm:** For low, medium and high contamination levels
- **HMI Touchscreen:** 7-inch HMI touchscreen shows real-time analysis data
- **Modes:** Mountable on a fuel polishing unit, or manual sampling using the built-in HMI
- **Monitoring System Connectivity:** Connects with the Fuel Analyzer monitoring system
- **High Sensitivity:** Data updates in seconds for precise, timely fuel quality monitoring
- **Real-Time Polishing Initiation:** Initiate polishing based on real-time fuel parameters
- **Rugged Industrial Construction:** Dust & water protection
- **Reusable and Low Maintenance:** Designed for repeated use without performance degradation
- **Data Centers:** Maintains HSD tank quality, optimizes Fuel Polishing Unit operation and ensures diesel generator backup reliability

Technical Specifications

Parameter	Specification
Viscosity	0.0 to 50.0 cP; assesses dynamic viscosity for flow and engine performance
Density	0.000 to 1.500 g/cc; evaluates fuel composition and quality
Temperature	-40°C to 150°C; ensures optimal analysis conditions
Dielectric Constant	1.00 to 6.00; analyzes dielectric properties for contaminants
Solid Contamination	ISO 4406 codes – 4, 6, 14, 21 microns; quantifies particulate matter
Water / Moisture Contamination	%RH or ppm; detects water in oil, microbial growth and rust
Supported Fluids	Engine, hydraulic, compressor, transformer, gear and transmission oils; diesel, biodiesel, kerosene, heavy fuel oil and other fuels within specified ranges
Communication Interface	PC/PLC integration; high-quality communication cable and CAN J1939 compliant 4-pin connector for reliable data transfer to the HMI
Fuel Property Sensing	Tuning fork technology to measure multiple parameters simultaneously
HMI	Capacitive touch; displays ISO 4406 metrics and RH; data logging and export option
Operating Environment	Industrial / commercial

Add-on Options

- Drip trays, custom enclosure
- Integration with fuel leak detection systems

System Capabilities

System Integration

- ✓ The **Fuel Property Sensor** assesses viscosity, density, dielectric constant and temperature
- ✓ The **Particle Detection Unit** monitors solid contamination and water content

Operating Modes

- ✓ **Online:** Mountable on pipelines with a maximum line pressure of 20 bar, connected to the nearest PLC panel, which relays data to the HMI
- ✓ **Offline:** Manual sampling from a pipeline via a sampling point, with the built-in HMI for direct display



Detect Early. Protect Always.

Leader in liquid presence detection. European engineering, global distribution.

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