## POINT SENSORS FOR FLAT SURFACE

PRODUCT DATA SHEET

Model: AT-SPC-01

**Supports Water and Conductive liquids
Instant and Positioning Leak Detection
Stainless steel material**

## Description

The AT-SPC-01 (Flat Surface sensors) are high-performance digital point sensors engineered for precise and reliable liquid leak detection for critical infrastructure.

Designed for integration with advanced monitoring controllers such as Atysen AT-SPC-CTR and AT-MNC-001, these sensors provide instant detection, accurate fault identification, and seamless communication with Building Management Systems (BMS).

Manufactured using SS316 stainless steel, built to withstand harsh industrial conditions while ensuring long operational life and minimal maintenance.

## 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 controllers. Seamless communication with monitoring panels.
- **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 upon contact with water or conductive liquids. Sensor drying time: < 5 seconds
- **Fast Recovery Performance**: Automatic reset within seconds after leak removal.

## Typical Applications

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

## Mounting Options

- Magnetic Plate – Direct attachment to metal surfaces
- Screw Mounting – Secure installation on non-magnetic surfaces

**ATYSEN Technologies**
*Leader in liquid leak detection.*
*European engineering, Global distribution.*

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# Technical Specifications

| Parameter | Specification |
|---|---|
| Brand | ATYSEN |
| Model | AT-SPC-01 |
| Detection Type | Digital Point Sensor |
| Response time | Instant |
| Reset / drying time | < 5 seconds |
| Output | Audible Alarm, Relay Activation, BMS Reporting |
| Maintenance | Low maintenance |
| Controller Compatibility | Atysen AT-SPC-CTR, AT-MNC-001 |
| Material | SS316 Stainless Steel |
| Protection Rating | IP67 |
| Reusability | Yes |
| Corrosion Resistance | Resistant to corrosion |
| Operating Environment | Industrial / commercial |

# System Capabilities

## Fault Identification

- Leak Detection
- Cable Break Detection
- Common System Fault

## Smart Maintenance Mode

- System temporarily isolate selected zones without triggering false alarms.
- The system automatically restores normal monitoring after a defined time

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# LEAK SENSING CABLE

PRODUCT DATA SHEET

Model: AT-ALC-400 / AT-MDC- 3/7/10/15/20
*(Customized length available)*

**Supports Water and Conductive liquids
Instant and Positioning Leak Detection
Advance Polymer material**

## Description

The ATYSEN AT-ALC-400/ AT-MDC-3/7/10/15/20 is a high-performance positioning water and conductive liquid leak detection cable designed to accurately detect and locate liquid leakage at any point along its length. When used in conjunction with an ATYSEN-compatible leak detection console, the system provides real-time alarm indication and precise leak location, enabling faster response and opportunity to minimize damage.

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.

## Key Features & Advantages

- **Rapid Leak Detection**: Instantly detects the presence of water or conductive liquid along the entire length of the cable
- **Accurate Leak Location**: When connected to an ATYSEN locating unit (AT-MNC-01 / AT-DIS-001), leaks are detected and located to the nearest meter
- **Leak Detection with Non-Locating Units**: When connected to a non-locating unit, the cable reliably detects leaks without position indication
- **Cable Integrity Monitoring**: Detects any break, cut, or open circuit through the sensing cable
- **Fast Reset & Reusability**: Non-absorbent construction allows the cable to be reset within seconds after removal of the liquid
- **Low-Halogen Construction**: Manufactured using low-halogen materials for enhanced fire safety
- **Low Smoke Emission**: Emits smoke with lower optical density and slower dispersion when exposed to high heat, compared to standard cables
- **High Sensitivity**: Immediate response upon 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

## 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

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# Technical Specifications

| Parameter | Specification |
|---|---|
| Brand | ATYSEN |
| Model | AT-ALC-400 / AT-MDC-3/7/10/15/20 |
| Detection Type | Positioning water leak detection |
| Standard Length | 3,7,10,15, 400, Custom |
| Detection Principle | Resistive change based on conductive liquid contact |
| Resistance Uniformity | Error ≤ 0.5% |
| Diameter | 5.5 mm |
| Construction | Spiral structure, no exposed metal |
| Core wire | Jackated PE Conductive polymer |
| Sensing wire | Spirally winded 2 Black wires |
| Continuity wire | Spirally winded 2 wires |
| Material | Conductive polymer & polymer insulation |
| Protection Rating | IP68 |
| Reusability | Yes |
| Corrosion Resistance | Resistant to slight corrosion |
| Operating Environment | Indoor / semi-harsh industrial environments |

# Product Identification Codes

| Product Identification Codes | Description |
|---|---|
| AT-ALC-400 | Positioning Leak Detection Cable for Water and Conductive liquids |
| AT-MDC-3 | 3 meters-Positioning Leak Detection Cable for Water and Conductive liquids |
| AT-MDC-7 | 7 meters- Positioning Leak Detection Cable for Water and Conductive liquids |
| AT-MDC-10 | 10 meters- Positioning Leak Detection Cable for Water and Conductive liquids |
| AT-MDC-15 | 15 meters- Positioning Leak Detection Cable for Water and Conductive liquids |
| AT-MDC-20 | 20 meters- Positioning Leak Detection Cable for Water and Conductive liquids |