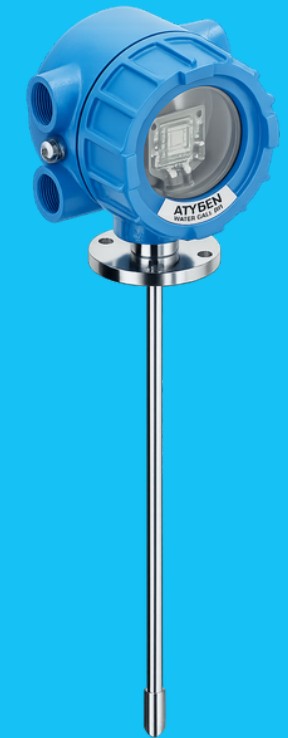


### FUEL TANK - WATER DETECTOR

#### PRODUCT DATA SHEET

Model: AT-SPC-DR

**Detects presence of Water in fuel tanks**  
**Intrinsic safe design**  
**Best suited for Diesel and Petrol fuel tanks**



### Description

The AT-SPC-DR (Fuel Tank - Water Detector) are high-performance digital sensors engineered for precise and reliable water accumulation detection for fuel tanks. The module is **intrinsic safe**, hence suitable for hazardous areas.

These sensors provide instant detection and seamless communication with peripheral systems through relays.

Manufactured using superior industrial grade material, built to withstand harsh conditions while ensuring long operational life and minimal maintenance.

### Key Features & Advantages

- **Intrinsic safe design:** Intrinsic safe design for hazardous areas
- **Precision water and conductive liquid detection:** Instantly detects the presence of water or conductive liquid
- **Rugged industrial construction:** SS 304 stainless steel used for the stem. IP66 rated
- **Reusable and low maintenance:** Designed for repeated use without performance degradation
- **Alarm unit connectivity:** Relays real-time alarms signal to Alarm / Alert unit
- **High Sensitivity:** Immediate response upon contact with water or conductive liquids. Sensor drying time: < 5 seconds
- **Fast Recovery Performance:** Automatic reset within seconds after restart of operation

### Typical Applications

- Diesel fuel tanks
- Petrol fuel tanks

### Operating Procedure

- The probe must be placed inside, 20-25 mm above the bottom of the tank
- When presence of water or conductive liquid is detected, the probe sends a signal to the electronic controller which then relays the output to alarm unit.

# Technical Specifications

| Parameter               | Specification                                                                       |
|-------------------------|-------------------------------------------------------------------------------------|
| Supply Voltage          | 24 volt DC                                                                          |
| Response Time           | Instant                                                                             |
| Intrinsic Safe          | Yes                                                                                 |
| Reset / drying Time     | < 5 seconds                                                                         |
| Output                  | Provision for audible Alarm through Relay (1 NO + 1 NC) - 1 amp @240v 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          | Flame proof and Weather proof                                                       |
| Number of Cable Entries | 2                                                                                   |
| Size of Cable Entries   | M 20                                                                                |

## System Capabilities

### Liquid Detection

- Water accumulation detection
- Conductive liquid accumulation detection

### Certifications

- PESO
- CMRI (CIMFR)



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