

SEMARS DIGITAL

SEMARS

Smart Equipment Monitoring
and Resolution System

SENSORS DATA SHEET

SEMARS DIGITAL

India : Ground Floor , Beech E-1 Manyata Embassy Business Park,
Bangalore, India

UAE : FDRK5907, Compass Building, Al Hamra Ind Zone-FZ, UAE

Oman : OFC 2/16, Focus Business Center, Way56, Muscat, Oman

Netherlands : 23-Aramstraat, 1336 HR, Almere, Netherlands

Contacts : info@semarsdigital.com | <https://semarsdigital.com>

Table Of Contents

Sensors

01. Water Leakage
02. Description
03. Key Features
04. Applications
05. Specifications
06. Notes
07. Cautionary Notes
08. Certifications

SEMARS DIGITAL

India : Ground Floor , Beech E-1 Manyata Embassy Business Park,
Bangalore, India

UAE : FDRK5907, Compass Building, Al Hamra Ind Zone-FZ, UAE

Oman : OFC 2/16, Focus Business Center, Way56, Muscat, Oman

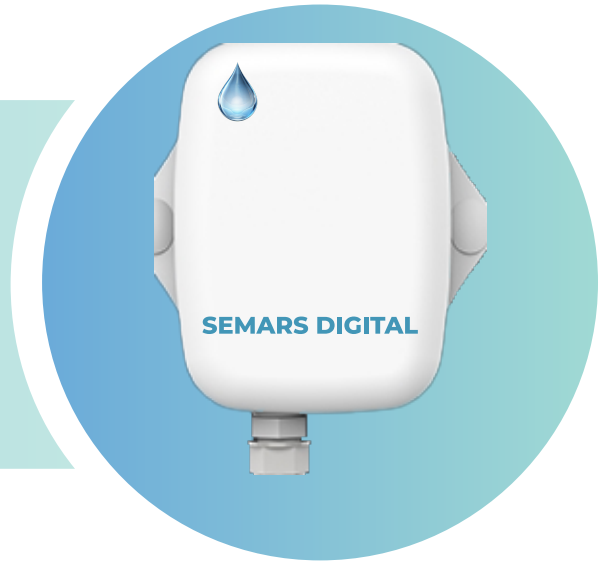
Netherlands : 23-Aramstraat, 1336 HR, Almere, Netherlands

Contacts : info@semarsdigital.com | <https://semarsdigital.com>

01

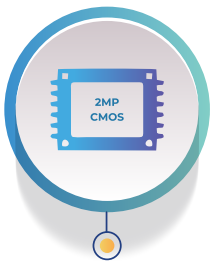
Water Leakage Sensor

Conductivity-based leak/immersion detector with NB-IoT; compact IP67 device for smart building water leak monitoring.



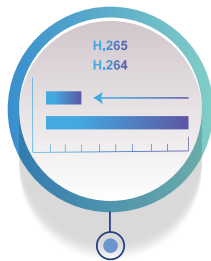
Its features and applications are as follows:

1.1 Key Features:



Detects water leakage and immersion events

Compact design



NB-IoT connectivity with excellent penetration and coverage

3GPP NB-IoT frequency bands



Protocol stack: IPv4/IPv6, UDP, CoAP, LwM2M, DTLS, TCP, MQTT

OTA firmware upgrade capability



Long battery life (5–10 years)

With 2×AA Li-SOCl₂ cells



Manageable via Semars Cloud

For outdoor use

1.2 Applications:

- Smart Homes & Buildings
- Data Centers
- Industrial Plants
- Commercial Spaces
- Municipal Water Systems
- Healthcare Facilities
- Transportation
- Smart IoT Integration

This type of sensor is particularly suitable for industrial or commercial environments requiring precise monitoring and integration with existing systems.

1.3 Specifications

SL No.	Specification	Value
1	Technology	NB-IoT , LoRaWAN primary
2	Bands	NB-IoT bands vary by region
3	Work Mode	Standard NB-IoT protocols
4	Leak Detection	Conductivity-based
5	Temperature Range	Thermistor Detects presence of water -30 to 70 °C
6	Accuracy	±0.3 °C
7	Resolution	0.1 °C
8	Housing & Color	ABS enclosure, White
9	Ingress Protection	IP67
10	Dimensions	Approx. 88 × 87 × 27 mm
11	Weight	Approx. 150 g
12	Operating Temperature	-30 to 70 °C
13	Relative Humidity	0–95% (non-condensing)
14	Installation	Wall or floor mounting with adhesive or screws
15	Power Supply	Built-in battery
16	Battery Life	Up to 10 years (depends on reporting interval)

1.4 Note:

Operating and storage conditions :

- 30 to 70 °C; 0–95% RH; indoor/utility spaces
- Keep dry; store flat; remove probe from wet surfaces during storage

Certifications :

- CE Certified
- RoHS Compliant
- IPV6 Packing
- ISO 9001 Manufacturing Standards

Attention :

- Place at lowest point; avoid standing water during installation; test alarm thresholds; battery check