



IM245

Smart Level Sensor

Battery powered level sensor for remote monitoring.

Remote level monitoring



Applications

Water buffering (sewage and rain water) | Rain water infiltration | Overflow detection and flow calculation | IBC containers | Temperature measurement

Electrical Properties

General

Measurement range

0.2 ... 9.0 m or 3,0 ... 12,0 m
(unhindered by dirt or rain)

Measurement accuracy

+/- 10 mm

Temperature range

-40 to +125 °C

Temperature accuracy

+/- 0,1 °C

Wireless connectivity

NB-IoT / LTE Cat M1

Supported cellular bands

1, 3, 8, 20, 28

SIM type

MicroSIM (1MB / month)

Certification

CE, RED, RoHS, WEEE

Clock (RTC)

Real-time clock functions (date and time)

Option1

Integrated infra red temperature sensor for water temperature measurement

Option2

External antenna for remote locations with poor network coverage

Power Supply

Operating voltage

Battery power

Battery type

1 pc 3.6 V DC C-type battery

Battery lifetime

Up to 5 years depending on the configuration

Operating conditions

Operating temperature

-25 °C ... +60 °C

Storage temperature

0 °C ... +30 °C (to maximize battery lifetime)

Relative humidity

10 % ... 95 % (non condensing)

Mechanical specification

Outer dimensions

Height: 28.5 mm

Width: 90 mm

Depth: 90 mm

Weight

400 gr

Ingress protection

IP65

Mounting type1

Plastic or SS plate with SS mounting hardware

Mounting type2

Plastic hanger with SS mounting hardware

Software

Data Collection / Recording

- Distance/water level
- Device temperature
- Battery voltage
- Sensor orientation
- Calculated flow (m³) for flow and overflow applications

Remote Settings / Commands

- Measurement range
- Sample rate
- Buffering capacity
- Alarm settings
- Fast sampling when water level reaches predefined limit
- Specific application settings

Alarms

- Water level L-H-HH
- Low/High temperature
- Power failure
- Sensor orientation
- No data received during last 24h