



**DETECTRONIC**  
**LIDoTT Alarm**

CML 21ATEX2097X  
IECEX CML 21.0002X  
CML 21UKEX2098X  
II 1G  
Ex ia IIB T4 Ga  
Ta = - 20°C to + 60°C

   **2813**

**WARNING: Potential electrostatic charging hazard - See instructions**

Product Code: P134-2-C



134238000001

Detectronic Ltd, Colne, BB8 8LJ.  
[www.detectronic.org](http://www.detectronic.org)

# LIDoTT<sup>®</sup> ALARM

## SEWER NETWORK ALARM MONITOR

# SELF CONTAINED COST EFFECTIVE, WATER LEVEL MEASUREMENT AND ALARM DEVICE FOR SMART SEWER NETWORK MONITORING.

## AFFORDABLE, ACCURATE AND RELIABLE

LIDoTT® ALARM integrates the Level sensor, battery, modem and Detectronic's unique Neptune antenna into one compact device. LIDoTT® ALARM alerts users to changes in wastewater depth enabling utilities to react quickly to blockages and surcharges caused by sewer collapses.

### DESIGNED FOR CONVENIENCE

LIDoTT® ALARM is simple to install and zero maintenance by design.

The enclosure is moulded from a carefully selected, resilient, naturally self-cleaning plastic polymer and is submersible.

**ATEX and IECEx certified**  
Zone 0

### CONTINUOUS MEASUREMENT AND ALARM DELIVERY

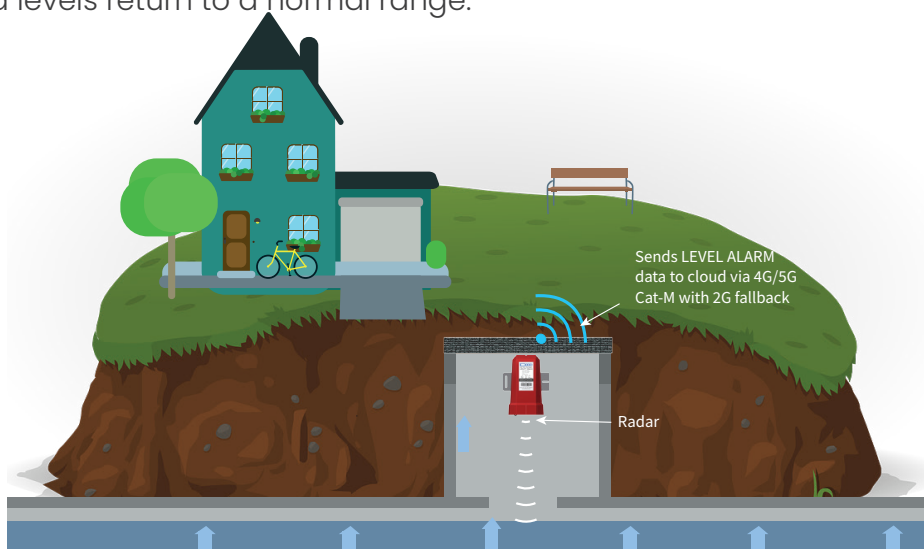
Alarm threshold set-points are configured on site during installation. A "return to normal" message is sent when levels fall back below the Alarm threshold.

Level measurement sampling rates can be configured at 5 or 15 min intervals. Logging at 15 min intervals is also available

A daily heartbeat message verifies the sensor is operational.

## WIDESPREAD DEPLOYMENT

LIDoTT® ALARM is ideal for widespread deployment throughout sewer networks, and in domestic or lateral sewers. LIDoTT® ALARM is also suitable for deployment across other water courses. It offers up to 3 configurable level states e.g. normal, high level and high-high level (green, amber, red). LIDoTT® ALARM continues to provide the status on alarms as the liquid levels return to a normal range.



## KEY FEATURES

### RADAR LEVEL

The LIDoTT® ALARM integrates Detectronic's unique long-range radar sensor with a 5° beam angle (2.5° around axis) .

### FLEXIBLE CONFIGURATION

All in one solution or with external battery and antenna solution for challenging environments. As LIDoTT® ALARM is fitted at the top of the chamber, no confined space entry is required.

### EASY TO INSTALL

The LIDoTT® Laser pointer is temporarily clipped onto the bottom of the sensor during installation to identify the measurement target and ensure the ideal sensor mounting position.

### REMOTE ADJUSTMENTS

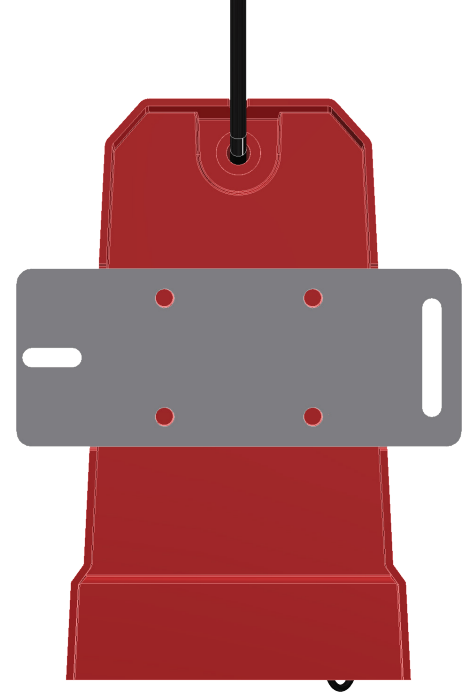
Alarm settings can be adjusted remotely over the air (OTA). Firmware updates can be delivered remotely and Battery voltage can be monitored remotely.

### NO NUISANCE ALARMS

Programmable Hysteresis and Persistence for the Alarm Set-Point values reduce the risk of nuisance-alarming

### LONG LIFESPAN

LIDoTT® ALARM delivers up to 7 years\* battery life.



\*Battery life subject to device configuration.



## ALARM COMMUNICATIONS

The LIDoTT® ALARM communicates using NB-IoT/Cat M1/M2 with 2G fallback.

- Precise radar Level measurement ensures accurate Level Alarm triggering
- Three ALARM states available - Green, Amber and Red
- When breached each ALARM threshold will trigger an ALARM message send which includes current Level value - both going High **AND** when returning to Normal
- ALARMS are delivered via Detectronic Cloud - SMS, Email and Website with GIS options are all available
- Optional Level data logging function - 15 minute intervals reported every 24 hours with latest data sent upon alarm
- Local configuration via Bluetooth enables easy set up

## PRODUCT SPECIFICATION

### LEVEL SENSOR

Type: Pulsed Coherent Radar (PCR)

Range: Upto 8m

Accuracy: +/- 5mm

### ENVIRONMENTAL

Operating temperature: -20°C to +60°C.

Protection: IP68/NEMA6P.

Dimensions:

Sensor - 92mm(w) x 196mm(h) x 122mm(d)

Battery - 105mm(w) x 113mm(h) x 44mm(d)

### COMMUNICATIONS

2G, 4G, LTE-M1, 4G NB-IoT

### APPROVALS

#### Alarm:

CSANe 24ATEX1275X

IECEX CSAE 24.0058X

CSAE 24UKEX1063X

#### Battery:

CML 21ATEX2097X

IECEX CML 21.002X

CML 21UKEX2098X

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