



LIDoTT[®] ALARM

SEWER NETWORK ALARM MONITOR

DETECTRONIC
LIDoTT Alarm
CML 21ATEX2039X
IECEX CML 20.0019X
II 1G
Ex ia IIB T4 Ga
Ta = - 20°C to + 60°C
CE 2813
WARNING: Potential electrostatic
charging hazard - See instructions
Product Code: P134-1
1 342 20 000 01 01
Detectronic Ltd, Colne, BB8 8LJ.
www.detectronic.org

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

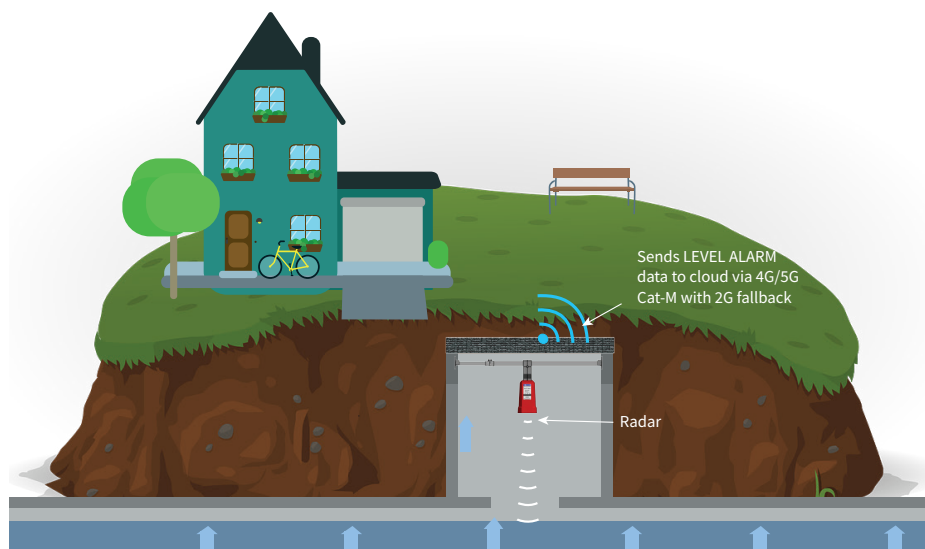
Alarm threshold set-points are configured on site during installation. A "return to normal" message is sent when levels fall back below the Alarm threshold.

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.

NO DRILLING REQUIRED

Unique **LIDoTT® ALARM** mounting brackets are designed to be fixed using fast setting adhesive. Brackets contain fixing holes for use where site conditions mandate. Back plates are also available.

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

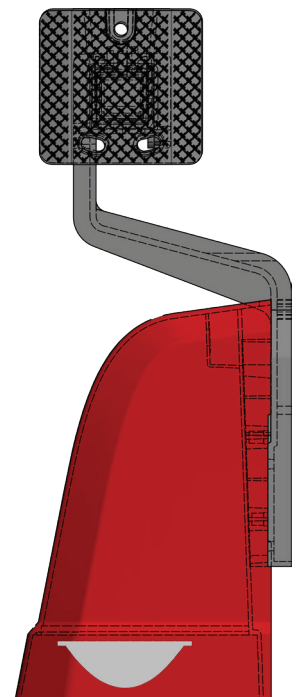
Alarm settings can be adjusted remotely over the air (OTA). Firmware updates can be delivered remotely and Battery voltage can be monitored remotely.

NO NUISANCE ALARMS

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

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

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

COMMUNICATIONS

Internal Hi-Gain NB-IoT/Cat M/2G antenna

ENVIRONMENTAL

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

Protection: IP68/NEMA6P.

Dimensions:

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

APPROVALS

ATEX - Zone 0

IECEX - Zone 0

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