LIDoTT Smart Datalogger

DETECTRONIC

An Adler and Allan company

IEC IECEx Ex UKCA

Product Datasheet

LIDoTT Smart Datalogger

The LIDoTT Smart Datalogger is an advanced data collection and transmission device designed to work in tandem with the LIDoTT sensor range, providing a comprehensive smart solution for efficient monitoring.

Data Communications

The LIDoTT Smart Datalogger communicates over 2G, 4G LTE-M1, and 4G NB-IoT networks. The data logging rate can be configured to 2, 5, or 15 minutes, while the data transmission frequency can be set for daily updates or more frequently. This includes a windowed send option, allowing increased communication frequency during events and reverting back to normal settings afterward. The system can also be permanently configured for specific time periods when particular events are expected. Data from the LIDoTT Smart Datalogger can be sent to any data platform via an API.

Features

- **Battery life:** Up to 7 years, dependent on logging and transmission rates.

- **Replaceable battery:** Separate battery for easy replacement, extending the lifetime of the modular solution.

- **External antenna options:** Enhances communication capabilities in remote areas.

- **Onsite configuration:** Easily configure settings with a smartphone app.

- **OTA updates:** Software and firmware updates can be performed remotely, allowing settings to be adjusted as needed.

Compatibility

The LIDoTT Smart Datalogger is designed to work seamlessly with the LIDoTT sensors (Sensor U, Sensor M, and Sensor R). When integrated, it delivers a comprehensive LIDoTT Smart solution, enhancing your monitoring capabilities and data management.

Technical Specifications

Smart Datalogger

Memory	64 MiB
Programming interval	2, 5, 15 minutes
Transmission frequency	5 mins - 24 hours
Power Supply	Replaceable external battery pack lasting up to 7 years, depending on logging and transmission settings.

Environmental Specifications

Operating temperature	-20ºC to +60ºC
Protection	IP68 in mated condition
Connectors	IP68

Dimensions and weights

LIDoTT Smart Dimensions	196mm (h) x 122mm (d) x 115mm (w)
LIDoTT Smart Weight	975g
Battery pack Dimensions	198mm (h) x 66mm (d) x 120mm (w)
Battery pack Weight	950g

Approvals and Compliance

ATEX Zone 0 Certified	CSANe 24ATEX1275X
IECEx Zone 0 Certified	CSAE 24.0058X
UKCA	CSAE 24UKEX1063X
Compliance	II 1 G, Ex ia IIB T4 Ga: Ta = -20ºC to +60ºC
MCERTS number	MC240396/00 (valid only when used with Sensor M)

Related Products

LIDoTT Sensor U

High-accuracy level monitoring for sewer networks and CSOs.

LIDoTT Sensor M

MCERTS-certified monitoring for regulatory compliance.

LIDoTT Sensor R

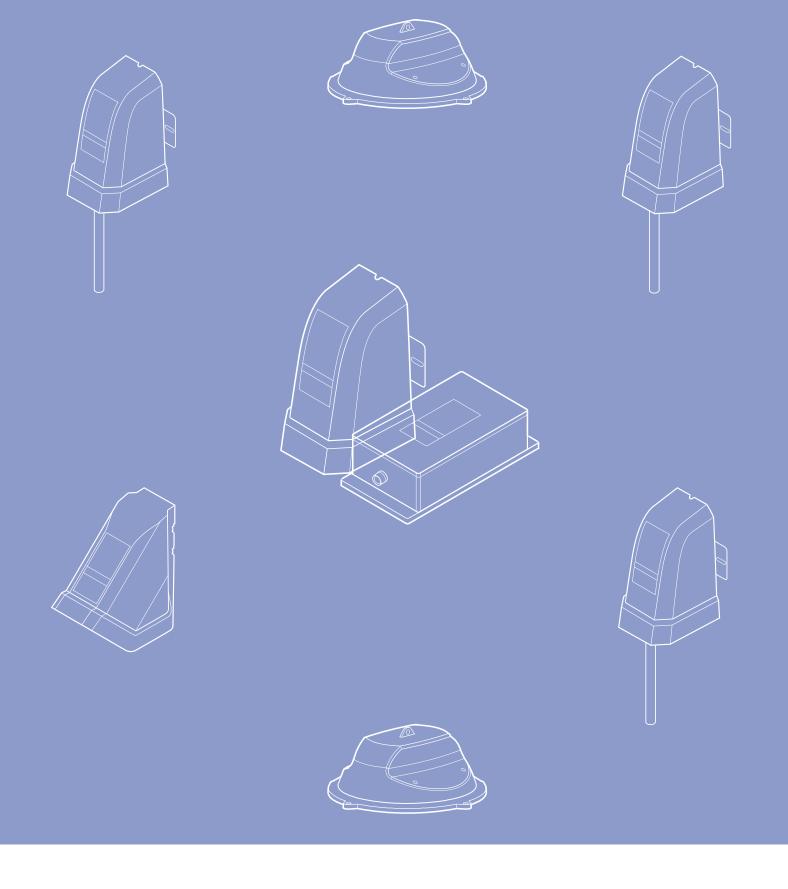Extended range for remote level monitoring in hard to access sites.

Coming soon

LIDoTT Flow

Non-contact flow monitoring for open channels and partially filled pipes.

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