

ADR-Tamp

The ADR-Tamp is an application-ready Sigfox enabled transceiver. A smart sensor perfectly suited for tamper detection applications.

The ADR-Tamp provides a connection to a national and global network infrastructure for reliable and secure communications. This standalone rugged small form factor sensor device delivers real-time tamper detection data for many use cases and can be configured accordingly.

The configuration of the transceiver can be done via the product or network allowing for real-time functionality and flexibility. Powered through a Li-SOCL battery. Battery life depends on the number of messages (typical life span of device 50000 messages)



Highlights

- Tamper detection data through Sigfox compliant radio networks perfect for security, vandalism and monitoring applications
- GPS and non-GPS hardware options
- Rugged IP67 enclosure
- Fully internal battery powered
- Long range connectivity
- Low cost low power design with up to 10+ year autonomy
- Small, compact and easy to install and conceal

Performances

- SF RF power: 14dBm (25mW)
- SF RF sensitivity: up to -127dBm
- GPS Sensitivity Tracking: -158dBm
- GPS Sensitivity Navigation: -157dBm

Warnings

- Battery end of life
- Over temperature
- Tamper detection

Firmware

SIGFOX network protocol

Transmission cycles: 2, 50, 100 or 140 frames per day

Data encryption: AES128 (Optional)

Software and Data Management

Device data transmitted via the Sigfox cloud infrastructure to the backend server platform for processing and reporting is provided as a standard. A custom platform with built-in device support can be provided or easily integrate the device into your own platform.

Peripheral Options

- Temperature / humidity sensor
- Ambient light sensor / Quality of air sensor
- Bluetooth (BLE) / GPS
- Accelerometer / Digital and analog IO

Compatibility

OBD-II

Typical Applications

- Manhole cover tilted or tampered detection
- Manhole cover open state detection
- Door / Gate tampering tracking, preventative maintenance & driver behaviour

General Information

Dimensions: 110 x 58 x 30 mm

Weight: 100 grams

Housing: IP67

Antennas: All integrated (internal)

Standards: EN 300-220, EN 301-489, EN 60950, ICASA; CE

Support: The device is available for RC1 (Europe, Middle East & South Africa)

Standard Operation (can be modified on request)

Tilt Mode:

- Standard unit is programmed to send trigger message when threshold is broken
- Heartbeat is sent every 24 hours

Movement Mode:

- Standard unit is programmed to send trigger message when threshold is broken
- Heartbeat is sent every 24 hours

Activity Mode:

- Unit is programmed to send two readings (30 min resolution – amount of thresholds broken in given time) every 1 hour
- Heartbeat is sent every 24 hours
- We can modify the resolution time and the transmission time will be resolution time * 2.

Device Lifespan:

Battery life depends on the number of messages (typical life span of device 50000 messages)