



Adroit IoT Sensors

Catalogue

ADR-Alert

The ADR-Alert is a small application ready Sigfox enabled transceiver a smart sensor perfectly suited for panic, alert, and position monitoring applications.

The ADR-Alert provides a connection to national and global network infrastructure for reliable and secure communications. This standalone small form factor sensor device delivers real-time position, panic, and alert data for many use cases and can be configured accordingly. An integrated button or automated Alert detection can be used as a trigger.

The configuration of the transceiver can be done via the product or network allowing for real-time functionality flexibility. Powered through a Li-SOCL battery allows standard autonomy for more than 2 years. Longer support options are available.



Highlights

- Alert detection data through Sigfox compliant radio networks perfect for security, medical and position monitoring applications
- Full GPS Support
- Multiple LED device feedback
- Rugged sealed enclosure with integrated button
- Fully internal battery powered
- Long range connectivity

Performances

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

Warnings

- Battery end of life
- Over temperature
- Fall/crash 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

- Accelerometer
- Temperature sensor

Who Can Benefit

- Children
- Senior citizens
- Shift workers
- Emergency service workers
- People with special needs

General Information

Operating temperature: -20 °C / +65 °C

Mounting Options: Can be used as a keyholder, fitted on bags, lanyards etc.

Dimensions: 70 x 38 x 19 mm

Weight: 40 grams

Housing: Sealed

Antennas: All Integrated (Internal)

GPS LNA: On-board

Automatic Alert: Fall or crash detection

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

Support: The device is available for RCZ1 (Europe and Middle East)

Device Lifespan:

- Battery life depending on operating conditions and mode allows standard autonomy for more than 2 years.

ADR-Aqua

The ADR-Aqua is an application ready Sigfox enabled transceiver allowing to transmit data from pulse enabled water meters (Elster, Precision, Sensus, and various other meter manufacturers compliance). The ADR-Aqua provides a connection to the national and global network infrastructure for reliable and secure communications.

The configuration of the transceiver can be done via the product or network allowing the choice of periodicity, sync, burst alerting, deployment, and tamper. Powered through a Li-SOCL2 battery, it allows standard autonomy up to 10 years.



Highlights

- Meter data through Sigfox compliant radio networks
- Wide Meter Compatibility Support
- Easy clip-on deployment
- Integrated Electronic Reed Switch
- Long range connectivity
- Low Cost Low power design with up to 10-year autonomy

Performances

- RF power: 14dBm (25mW)
- RF sensitivity: up to - 127dBm

Warnings

- Battery end of life
- 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.

Compatibility

Pulse enabled water Meters (Reed Switch)

General Information

Operating temperature: -20 °C / +65 °C

Mounting Options: Simple meter clip-on secured with a screw and Tamper Tie

Dimensions: 93 x 24 x 50 mm

Weight: 100 grams

Housing: IP68

Antennas: All Integrated (Internal)

GPS LNA: On-board

Standards: EN300-220, EN 301-489, EN 60950, ICASA; CE

Support: The device is available for RC1 (Europe, Middle East & South Africa) other zones are being certified

ADR-Pressure

ADR-PRESSURE is an application ready Sigfox device that measures and transmits pressure data.

ADR-PRESSURE provides the connection to the global Sigfox IoT Network for reliable and secure communications.

The configuration of the device can be done via the network allowing the choice of transmission rate and operation mode. Specifically designed for the IoT world, depending on operating conditions and mode it can last up to 3 years without having to change the battery.



Operational Overview

The ADR-PRESSURE unit can be selected to work in various modes. Each mode will impact on battery life and which Sigfox data contract would be required.

Mode's of Operation (set via network)

- Mode 1:** Sample every X minutes/seconds, transmit every Y minutes selectable and within Sigfox contract – min, max, average period.
- Mode 2:** Set the lower and upper alarm limits sample every X minutes/seconds, transmit every Y minutes selectable and within Sigfox contract - min, max, average unless either high or low limits are breached for more than Z samples in which case send a sample immediately and start transmitting every A minutes until pressure within limits (stable) for more than B samples.

Highlights

- Pressure ranges : 0-10 bar or 0-20 bar (with 2 times over pressure absorption)
- Data through Sigfox compliant radio networks
- Long range connectivity
- Low power design with up to 3+ years autonomy (typically measured by no of transmissions, battery life = approximately 50 000 transmissions, depending on operating temperature)

Performances

- **RF Power:** 14dBm (25mW)
- **RF Sensitivity:** up to -127dBm
- **Interfaces:** Pressure transducer directly

Warnings

- Battery end of life
- Over temperature
- Tamper detect

Firmware

Sigfox network protocol

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

Downlink dependant on Sigfox contract

Data encryption: AES128 (Optional)

Software and Data Management

Data from the device can be provided or easily integrated into your own platform. It is possible to use the Adroit IoT platform as a gateway for already existing SCADA installations. Payload provided on request.

Peripheral Options

- Tamper detection possible
- GPS (Sigfox Network Resolution possible)

General Information

Sensor body stainless steel

Sensor options: 0-10 bar or 0-20 bar

Operating temperature: -20 °C / +65 °C

Sensor mounting thread 1/2" BSP

Cable length – 2m standard

Transmitter mounting options: screws, rivets, tie-wraps and 2-sided tape

Dimensions: 110 x 58 x 30 mm

Weight: 100grams

Housing: IP67

Antenna: All integrated (Internal)

Standards: EN 300-220, EN 301489, EN 60950, ICASA; CE

Standard Operation (can be modified on request)

Default Mode:

- Standard unit is programmed to sample every 1 minute and send two readings (30 min resolution - min,max and avg values) every 1 hour
- We can modify the resolution time and the transmission time will be resolution time * 2.

Device Lifespan:

- Battery life depending on operating conditions and mode, can last up to 3 years.

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)

ADR-Tamp

PIR & Magnetic Switch

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 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-SOCL2 battery, it allows standard autonomy up to 10 years. Longer support options are available.



Highlights

- Tamper detection data through Sigfox compliant radio networks perfect for Security, Vandalism and Monitoring applications
- Low power Passive infrared Sensor support
- Movement detection
- Magnetic Switch Support (open / close states)
- 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

Warnings

- Battery end of life
- Over temperature
- Tamper detect

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

- Digital and Analog IO
- Bluetooth (BLE)
- GPS
- Early warning and alarm

Typical Applications

- Security applications
- Early warning and alarm

General Information

Dimensions: 110 x 58 x 30 mm

Weight: 100 grams

Housing: IP67

Antennas: All Integrated (Internal)

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

Radio Zone Support

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

All other zones will be supported soon.

Standard Operation (can be modified on request)

PIR Trigger Mode:

- Standard unit is programmed to send trigger message when movement detected. (10min dead time after trigger)
- Heartbeat is sent every 24 hours

PIR Activity Mode:

- Unit is programmed to send two readings (30 min resolution – amount of movements detected) 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)

ADR-Thermo

ADR-Thermo is an application-ready Sigfox enabled transceiver allowing to transmit and manage Temperature and Humidity sensor data. ADR-Thermo provides a connection to national and global network infrastructure for reliable and secure communications.

The configuration of the transceiver can be done via the product or network allowing the choice of periodicity, alerting, and data encryption. ADR-Thermo further supports a downlink function to the device for switching functionality. Powered through a Li-SOCL2 battery, it allows standard autonomy up to 10 years.



Highlights

- Temperature & Humidity data through Sigfox compliant radio networks
- Perfect for Cold Chain Applications
- Accurate Readings for both Temperature and Humidity
- Long range connectivity
- Low Cost Low power design with up to 10+ year autonomy

Performances

- SF RF power: 14dBm (25mW)
- SF RF sensitivity: up to -127dBm
- Interfaces: Pulse, Eco and Serial

Warnings

- Battery end of life
- Over Temperature
- Tamper Detection (Optional)

Firmware

SIGFOX network protocol

Transmission cycles: 2, 50, 100 or 140 update links per day

Data encryption: AES128 (Optional)

Software and Data Management

Data from the device, transmitted via the Sigfox cloud infrastructure to the backend server platform with built in device support can be provided or easily integrate the device into your own platform.

Peripheral Options

- Bluetooth (BLE) / GPS
- Accelerometer

Typical Applications

- Cold Chain Management
- Smart City Buildings and Smart Agriculture

General Information

Operating temperature: -20 C / +65 C

Mounting Options: Screws, rivets, tie-wraps and 2-sided tape

Dimensions: 110 x 58 x 30 mm

Weight: 100 grams

Housing: IP67

Antenna: All Integrated (Internal)

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

Standard Operation (can be modified on request)

Temperature Probe Mode:

- Default unit is programmed to send 4 temperature readings every 1 hour with 15 min temperature samples
- We can modify the sample time and the transmission time will be sample time * 4.

Humidity Mode:

- Default unit is programmed to sample every 1 minute and send Temperature and Humidity (min, max and avg readings) every 30 minutes
- We can modify the transmission time but not the sample time.

Device Lifespan:

10 years battery life depending which mode is used.

ADR-Thermo

Air Quality Sensor

ADR-Thermo is an application ready Sigfox enabled transceiver allowing to transmit and manage Air Quality sensor data.

ADR-Thermo provides a connection to a national and global network infrastructure for reliable and secure communications.

The configuration of the transceiver can be done via the product or network allowing the choice of periodicity, alerting, and data encryption.

ADR-Thermo further supports a downlink function to the device for switching functionality. Powered through a Li-SOCL2 battery, it allows standard autonomy up to 10 years.



Highlights

- Temperature, Humidity & CO2 data through Sigfox compliant radio networks
- Perfect for Smart Building applications
- Accurate Readings via quality probes
- Long range connectivity
- Low Cost Low power design with up to 10+ year autonomy

Performances

- SF RF power: 14dBm (25mW)
- SF RF sensitivity: up to -127dBm

Warnings

- Battery end of life
- Over temperature
- Tamper detect (Optional)

Firmware

SIGFOX network protocol

Transmission cycles: 2, 50, 100 or 140 update links per day

Data encryption: AES128 (Optional)

Software and Data Management

Data from the device, transmitted via the Sigfox cloud infrastructure to the backend server platform with built in device support can be provided or easily integrate the device into your own platform.

Peripheral Options

- Digital and Analog IO
- Bluetooth (BLE)
- GPS
- Accelerometer

Typical Applications

- Cold Chain Management
- Smart City and Buildings
- Smart Agriculture

General Information

Operating temperature: -20 °C / +65 °C

Mounting Options: Screws, rivets, tie-wraps and 2-sided tape

Dimensions: 110 x 58 x 30 mm

Weight: 100 grams

Housing: IP67

Antennas: All Integrated (Internal)

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

Standard Operation (can be modified on request)

CO2 Mode:

- Default unit is programmed to sample every 10 minutes and send Temperature, Humidity and CO2 (min, max and avg readings) every 60 minutes
- We can modify the transmission time but not the sample time.

Temperature Probe Mode:

- Default unit is programmed to send 4 temperature readings every 1 hour with 15 min temperature samples
- We can modify the sample time and the transmission time will be sample time * 4.

Humidity Mode:

- Default unit is programmed to sample every 1 minute and send Temperature and Humidity (min, max and avg readings) every 30 minutes
- We can modify the transmission time but not the sample time.

Device Lifespan:

10 years battery life depending which mode is used.

ADR-Track

The ADR-Track is an application-ready Sigfox enabled transceiver. A smart sensor perfectly suited for asset tracking applications. ADR-Track provides a connection to national and global network infrastructure for reliable and secure communications. This rugged small form factor sensor device delivers tracking functionality to powered or non-powered assets.

The configuration of the transceiver can be accomplished via the product or network allowing for real-time functional flexibility. Powered through a Li-SOCL2 battery. Battery life depends on the number of messages and message types: 15000 messages on GPS and 2000 messages on WiFi.



Highlights

- Location and sensor data through Sigfox compliant radio networks
- 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
- Supports external sensor inputs

Performances

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

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
- Digital and Analog IO
- Bluetooth (BLE)
- GPS
- Accelerometer

Typical Applications

- The ADR-Track is an application ready Sigfox enabled transceiver
- A smart sensor perfectly suited for asset tracking applications

General Information

Operating temperature: -20 °C / +65 °C

Mounting Options: Screws, rivets, tie-wraps and 2-sided tape

Dimensions: 110 x 58 x 30 mm

Weight: 100 grams

Housing: IP67

Antennas: All Integrated (Internal)

GPS LNA: On-board

External Sensors: Various supported

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

Standard Operation (can be modified on request)

Default Mode:

- Send GPS Coordinates on configuration chosen
- Downlink is used to configure the device with one of the following options:
 - Interval Time
 - Motion
 - Tilt/Non-Flat
 - Distance

Device Lifespan:

Battery life depends on the number of messages and message types

- 15000 messages on GPS and
- 2000 messages on WiFi

ADR-Track Nano

The ADR-Track Nano is an application-ready Sigfox enabled transceiver. A smart sensor perfectly suited for asset tracking applications. ADR-Track Nano provides a connection to national and global network infrastructure for reliable and secure communications. This small form factor sensor device delivers tracking functionality to powered or non-powered assets.

The configuration of the transceiver can be accomplished via the product or network allowing for real-time functional flexibility. Powered through a Li-SOCL2 battery. Battery life depends on the number of messages and message types:- 2000 messages on GPS and 400 messages on WiFi



Highlights

- Location and sensor data through Sigfox compliant radio networks
- Fully internal battery powered
- Long range connectivity
- Low cost low power design with up to 2-year autonomy
- Small & compact

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
- Tamper, crash & fall detection

Firmware

SIGFOX network protocol

Transmission cycles: 2, 50, 100 or 140 update links 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 sensor
- Accelerometer

Typical Applications

- The ADR-Track is an application ready Sigfox enabled transceiver
- A smart sensor perfectly suited for asset tracking applications

General Information

Operating temperature: -20 °C / +65 °C

Mounting Options: Clips, keyrings, lanyard or double-sided tape

Dimensions: 70 x 38 x 19 mm

Weight: 40 grams

Housing: Sealed

Antennas: All Integrated (Internal)

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

Automatic Alerts: Fall or Crash detection

Standard Operation (can be modified on request)

Default Mode:

- Send GPS Coordinates on configuration chosen
- Downlink is used to configure the device with one of the following options:
 - Interval Time
 - Motion
 - Tilt/Non-Flat
 - Distance

Device Lifespan:

Battery life depends on the number of messages and message types

- 2000 messages on GPS and
- 400 messages on WiFi

ADR-Util

ADR-Util is an application-ready Sigfox enabled transceiver allowing to transmit data from utility meters (water, gas, electricity & heat meter compliant). ADR-Util provides a connection to national and global network infrastructure for reliable and secure communications.

The configuration of the transceiver can be done via the product or network allowing the choice of periodicity, pulse, weight, data encryption. ADR-Util further provides a downlink function to the device for switching functionality. Powered through a Li-SOCL2 battery. 4-10 years battery life depending on which mode is used.



Highlights

- Meter data through Sigfox compliant radio networks
- Utility meter support (water, gas, electricity & heat meter compliant)
- Supports various meter reading interface standards
- Long range connectivity
- Low cost low power design with up to 10+ year autonomy

Performances

- SF RF power: 14dBm (25mW)
- SF RF sensitivity: up to -127dBm
- Interfaces: Pulse, eco and serial

Warnings

- Battery end of life
- Over temperature
- Tamper detect

Firmware

SIGFOX network protocol

Transmission cycles: 2, 50, 100 or 140 update links per day

Data encryption: AES128 (Optional)

Software and Data Management

Data from the device, transmitted via the Sigfox cloud infrastructure to the backend server platform with build 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
- Digital and Analog IO
- Bluetooth (BLE)
- GPS
- Accelerometer

Typical Applications

- Water, gas, electricity and heat meters

General Information

Operating temperature: -20 °C / +65 °C

Mounting Options: Screws, rivets, tie-wraps and 2-sided tape

Dimensions: 110 x 58 x 30 mm

Weight: 100 grams

Housing: IP67

Antenna: 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)

Default Mode:

- Unit is programmed to send two readings (30 min resolution - pulse totaliser) every 1 hour
- Unit only start sending after 10 pulses received

No Wait Mode:

- Unit is programmed to send two readings (30 min resolution - pulse totaliser) every 1 hour
- Unit start sending messages every hour from start of device

Quicksend Mode:

- Unit is programmed to send two readings (30 min resolution - pulse totaliser) every 1 hour
- Unit sends 5 messages (5 minute interval) and then switch over to every hour from start of device

Quicksend + TimeSync Mode:

- Unit is programmed to send two readings (30 min resolution - pulse totaliser) every 1 hour
- Unit sends 5 messages (5 minute interval) and then switch over to every hour from start of device
- Downlink is used to sync time every 24 hours.

Device Lifespan:

4-10 years battery life depending which mode is used.

ADR-Util

4-20mA

ADR-Util 4-20mA Input is an application ready Sigfox enabled transceiver, perfectly suited for monitoring applications.

ADR-Util 4-20mA provides a connection to a national and global network infrastructure for reliable and secure communications.

The configuration of the transceiver can be done via the product or network allowing the choice of periodicity, pulse, weight, data encryption.

ADR-Util 4-20mA further provides a downlink function to the device for switching functionality. Powered through a Li-SOCL2 battery, it allows standard autonomy up to 10 years.



Highlights

- 4-20mA input support
- High resolution sample data
- Long range connectivity
- Low Cost Low power design with up to 10+ year autonomy

Performances

- SF RF power: 14dBm (25mW)
- SF RF sensitivity: up to -127dBm
- Interfaces: 4-20mA Input

Warnings

- Battery end of life
- Over temperature
- Tamper detect

Firmware

SIGFOX network protocol

Transmission cycles: 2, 50, 100 or 140 update links per day

Data encryption: AES128 (Optional)

Software and Data Management

Data from the device, transmitted via the Sigfox cloud infrastructure to the backend server platform with built in device support can be provided or easily integrate the device into your own platform.

Peripheral Options

- Digital and Analog IO
- Bluetooth (BLE)
- GPS
- Accelerometer

Typical Applications

- Smart Buildings
- Industrial Buildings

General Information

Operating temperature: -20 °C / +65 °C

Mounting Options: Screws, rivets, tie-wraps and 2-sided tape

Dimensions: 110 x 58 x 30 mm

Weight: 100 grams

Housing: IP67

Antennas: All Integrated (Internal)

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

Standard Operation (can be modified on request)

Default Mode:

- Standard unit is programmed to sample every 10 minutes and send information every 1 hour
- We can modify the sample time and the transmission time will be sample time * 6.

Device Lifespan:

10 years battery life depending which mode is used.

ADR-Util

Dry Contact 3 Input

ADR-Util Dry Contact 3 Input is an application ready Sigfox enabled transceiver, perfectly suited for monitoring applications.

ADR-Util provides a connection to a national and global network infrastructure for reliable and secure communications.

The configuration of the transceiver can be done via the product or network allowing the choice of periodicity, pulse, weight, data encryption.

ADR-Util further provides a downlink function to the device for switching functionality. Powered through a Li-SOCL2 battery, it allows standard autonomy up to 10 years.



Highlights

- 3 Dry Contact Input Support
- State and state change real time reporting
- Long range connectivity
- Low Cost Low power design with up to 10+ year autonomy

Performances

- SF RF power: 14dBm (25mW)
- SF RF sensitivity: up to -127dBm
- Interfaces: Dry Contact 3 Inputs

Warnings

- Battery end of life
- Over temperature
- Tamper detect

Firmware

SIGFOX network protocol

Transmission cycles: 2, 50, 100 or 140 update links per day

Data encryption: AES128 (Optional)

Software and Data Management

Data from the device, transmitted via the Sigfox cloud infrastructure to the backend server platform with built in device support can be provided or easily integrate the device into your own platform.

Peripheral Options

- Digital and Analog IO
- Bluetooth (BLE)
- GPS
- Accelerometer

Typical Applications

- Smart Buildings

General Information

Operating temperature: -20 °C / +65 °C

Mounting Options: Screws, rivets, tie-wraps and 2-sided tape

Dimensions: 110 x 58 x 30 mm

Weight: 100 grams

Housing: IP67

Antennas: All Integrated (Internal)

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

Standard Operation (can be modified on request)

Default Mode:

- Standard unit is programmed to send trigger message when any of the states change.
- Heartbeat with current state is sent every hour

Device Lifespan:

10 years battery life depending which mode is used.

ADR-Util

Ultra Sonic Level

ADR-Util Ultra Sonic Level is an application-ready Sigfox enabled transceiver allowing to transmit level or distance data. ADR-Util provides a connection to national and global network infrastructure for reliable and secure communications

The configuration of the transceiver can be done via the product or network allowing the choice of periodicity, pulse, weight, data encryption.

ADR-Util further provides a downlink function to the device for switching functionality. Powered through a LiSOCL2 battery, it allows standard autonomy of up to 1 to 3 years.



Highlights

- High resolution Level / Distance data up to 3.5 meters
- Rugged, Low Power, Self-Powered Sensor
- Long range connectivity
- Low Cost Low power design with up to 10+ year autonomy

Performances

- RF power: 14dBm (25mW)
- RF sensitivity: up to -127dBm

Warnings

- Battery end of life
- Over temperature
- Tamper detect

Firmware

SIGFOX network protocol

Transmission cycles: 2, 50, 100 or 140 update links per day

Data encryption: AES128 (Optional)

Software and Data Management

Data from the device, transmitted via the Sigfox cloud infrastructure to the backend server platform with build-in device support can be provided or easily integrate the device into your own platform.

Peripheral Options

- Digital and Analog IO
- Bluetooth (BLE)
- GPS
- Accelerometer

Typical Applications

- Liquid Level detection
- Distance measurements

General Information

Operating temperature: -20 °C / +65 °C

Mounting Options: Screws, rivets, tie-wraps and 2-sided tape

Dimensions: 110 x 58 x 30 mm

Weight: 100 grams

Housing: IP67

Antenna: All Integrated (Internal)

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

Standard Operation (can be modified on request)

Default Mode:

- Standard unit is programmed to sample every 10 minutes and send information every 1 hour
- We can modify the sample time and the transmission time will be sample time * 6.

Device Lifespan:

1 - 3 years battery life depending on transmissions.

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