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.