

IoT SENSOR

VIDA APP

INTERNET OF THINGS

IoT SENSOR

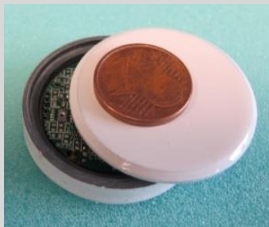


What is VidaApp IoT Sensor?

VidaApp™ IoT Sensor is the first product of the Internet of Things division of Integrated Systems Design and Development S.L. which offers state-of-the-art and energy-efficient devices with ultra-low power consumption.

VidaApp IoT Sensor

The VidaApp™ IoT Sensor consists of an enclosure that includes a coin-type battery and a circular four-layer PCB with 0402 components, 0.5mm thick and 25.4mm diameter. This box contains a magnet or glue to stick on objects and thus observe their behavior (temperature, movement, location, presence ...) and determine different behavioral patterns of how people interact with these objects in their environment. For example, in the elderly telecare scenario, the sensor monitors the basic activities of daily living such as the hours the person is in bed, whether they go to the bathroom, opening doors and windows ... as well as instrumental activities such as use of the telephone, cooking, entering or leaving the house, handling of the medication, etc.



VIDA APP IoT SENSOR



IoT SENSOR PCB IN ITS BOX



IoT SENSOR WITH MAGNET

The VidaApp™ IoT sensor is compatible with mobile phones with low energy Bluetooth as are most mobile with Android operating system sold since 2013, requiring Android 4.3 or higher. The IoT sensor is synchronized with the user's mobile phone through an Android Application that will be downloadable in the GooglePlay app store and in the web www.vidaapp.com It will require iOS 6.0 or higher, in a future version of the app on Apple platform, for iPhone or iPad.

How does it work?

After downloading the application, the VidaApp™ IoT Sensor is automatically synchronized with the mobile of the user, who proceeds to register the notifications he wants to receive from the sensor in case of an alarm, such as the detection of presence in the infrared or the detection of movement in the accelerometer.

Once the sensor is synchronized with the sending telephone, the person assigns the additional telephone numbers to which he wants the SMS alarms to be notified. Through the application, the alarm history sent by the sensor is accessible.

The VidaApp™ IoT Sensor was designed for indoor and outdoor placement and is water resistant (ip67).

The VidaApp™ IoT Sensor notifies the following types of alarms to the Alarm Receiving Center or any mobile phone: user alarms (pressed button), device alarms (temperature, movement, presence) or technical alarms (battery status or information on protocol communication). Alarm notification includes the time, GPS position and sensor identifier in the data frame. The IoT sensor communicates via low-energy Bluetooth in two ways: with a Bluetooth 4.0 compatible mobile handset or via the VidaApp™ Solar Node. In the last case, the collector node acts as a Bluetooth/GSM/GPRS gateway creating a wireless network with dozens of IoT sensors.



MOBILE TRANSMITTER



VIDA APP IoT SENSOR



VIDA APP SOLAR NODE



MOBILE NETWORK



MOBILE RECEIVER / ARC

Applications

- Panic button. <https://youtu.be/mFeZBUssGqo>
- Presence detection.
- Fall detection and verticality in objects.
- Thermometer to sense temperature.
- Activities of Daily Living (ADL) Monitoring.
- Theft protection.
- Electronic repository of tourist information or any other, by means of non-volatile memory with storage capacity of 250,000 characters and wireless reading by Bluetooth low energy and QR code.
- We develop applications or drivers for Alarm Reception Centers that operate mobile telecare services in accordance with norm UNE-133503.
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The main circuits and features of the VidaApp™ IoT Sensor are:

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| <ol style="list-style-type: none">1. Cortex M3 Micro controller with a 32.768Khz crystal to be able to implement real time clocks and perpetual calendar.2. Bluetooth Low Energy 4.0 with PCB integrated antenna.3. 3V button-type lithium battery operating from 6 to 12 months before replacing the battery. The device synchronizes the status of the battery with the App alerting low battery to the Alarm Receiving Centre.4. EEPROM 2Mb Memory (non-volatile) with I2C connection.5. Optional GPS with PCB integrated antenna. | <ol style="list-style-type: none">6. Programmable digital accelerometer with 3 axes and ultra-low consumption (6µA).7. Intelligent charger circuit for LIPO type battery.8. Vibrating Motor.9. Led indicator.10. Touchless thermometer with an accuracy of 0.03 ° C at a distance of 8 cm.11. Lighting changes detector.12. Output for audio with a DAC or digital to analog.13. External connector for power and an I2C port with interrupt to add any other sensor or device. |
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CONTACT US FOR MORE INFORMATION

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