

SEZA



SEZO BL

compact & low-power sensor

sending data via LoRaWAN
to Orange Live Objects platform

two configurable alarm buttons
(USB configuration)

long battery life - up to
3 years on a single battery

indoor emergency calls and
condition monitoring

an additional alarm button
connected via a cable

measuring environmental parameters
such as temperature, humidity and luminosity

flexibility & configurability (threshold
configuration for all measured parameters)



POTENTIAL USE CASES



INDUSTRIAL PRODUCTION SITES

SEZO BL enhances security at *industrial manufacturing sites*.

The **SEZO BL** device has three visible, configurable **alarm buttons**, which enable both *calling* (red button on the front, along with the button on the cable) *and cancelling the alarm* (green button on the side) in case of an on-site, potentially life-threatening emergency. With one button on the front, and second one attached via a cable, the facility workers easily *inform everyone on-site about the emergency*, enabling timely evacuation.

The device is capable of sending data to the Orange Live Objects platform via LoRaWAN and pulls from the environment such data as temperature, humidity and luminosity. Facility management uses **SEZO BL** to monitor environmental conditions on-site.

SEZO BL device is powered by a 1200 mAh battery and allows seamless installation.



CARE FACILITIES

SEZO BL is used by **care centre managers** (hospitals, nursing homes, retirement homes) to *provide safe and comfortable conditions for their residents*. By measuring and configuring alarm thresholds for environmental parameters such as temperature, humidity and light levels, **SEZO BL** helps to create *optimal living conditions for the residents*. **SEZO BL** also allows for *lighting control* - e.g. automatic switching of light in a corridor when the light level falls below a defined threshold.

SEZO BL is also equipped with **three alarm buttons** - a red one on the front of the unit, and a black one on a cable, which allow the *elderly or sick person to call for help*, and a green one on the side, enabling the user to cancel the alarm. The device is small and has a battery supply so it can always be within reach of the person in need.

The device sends data via LoRaWAN to the Orange Live Objects platform.



POTENTIAL USE CASE - CARE FACILITIES



SEZO BL - TECHNICAL SPECIFICATIONS

DESCRIPTION	<ul style="list-style-type: none"> - Compact low-power emergency button device measuring temperature, humidity and luminosity - Two visible configurable alarm buttons (eg. Calling and canceling the alarm) and an additional coupled button connected to the cable - LoRaWAN networking technology for long transmission range and very long battery life (up to 3 years on a single battery) - Made for indoor emergency calls and condition monitoring in human- occupied spaces - USB configuration - Every unit is shipped with individual test report - Integrated with Orange Live Objects Platform
MEASURED PARAMETERS	Temperature, humidity and luminosity
OPERATING TEMPERATURE	-30 ÷ 60°C
MEASUREMENT RANGE AND ACCURACY	<ul style="list-style-type: none"> - Temperature: -30 ÷ 60°C, typ. ±0,3°C, max ±1°C - Humidity: 0 ÷ 100%, typ. ±2%, max. ±5% @25°C @20 ÷80% RH - Luminosity: 0 ÷ 1000 lx, typ. ±10%, max ±35% @500lx
COMMUNICATION PROTOCOL	LoRaWAN v1.0.2, Class A device
FREQUENCY AND TRANSMISSION POWER	868 MHz, maximum 14 dBm
DATA TRANSMISSION INTERVAL	Default 15 minutes (configurable) or event/button-triggered
BATTERY	1/2 AA 3.6V (1200 mAh)
ENCLOSURE	IP54, ABS
WEIGHT	122 g
PRODUCT DIMENSIONS	Length 103 mm, width 52 mm, height 32 mm



About WiRan

WiRan Sp. z o.o. is a B2B company providing R&D services to national and international clients in the space, maritime, railway, industrial and IoT sectors. Our expertise lies in Radio Frequency and Wireless technologies, the development of electronic parts, fast product prototyping, feasibility studies, certifications and EMC testing. Founded in 2002, we are looking back at soon to be 20 years as a HW design office - supporting our diverse clients from the conception through prototyping to product quality development of electronic devices. You can find our designs mounted around Tricity (air quality measuring systems), and soon also in space (satellite communication modules), just to name a few.

WiRan offices and laboratories are currently located in Gdynia, Poland.

About SEZO

SEZO is a suite of products that can be best described as long range, customizable IoT solutions. SEZO products are based on LoRaWAN™ and LTE-M / NB-IoT technology and can be customized by clients, based on their needs.