



EKSELANS BY ITS

# TECHNOLOGICAL SOLUTIONS FOR HOSPITALS AND HEALTHCARE SECTOR



ENTER THE EK WORLD

## ABOUT US



**Ekselans by ITS (EK)** is the brand of ITS Partner, a Spanish industrial group comprised of four companies dedicated to R&D, software engineering, electronic design, and manufacturing of professional solutions for the telecommunications sector.

The EK catalog covers a broad range of products, allowing professional installers and integrators to successfully delve into multiple business areas.



**HEAD OFFICE**  
Sant Cugat del Vallès, Barcelona



**MADRID HEAD OFFICE**  
Madrid



**CANARIAS SUBSIDIARY**  
Las Palmas G.C.



**LOGISTIC CENTRE**  
Sabadell, Barcelona



**R&D CENTERS**  
-Madrid  
-Zaragoza  
-San Sebastián  
-Las Palmas G.C.



**ASSEMBLING AND PRODUCTION LINES**  
-Barcelona



**ASSEMBLING AND PRODUCTION LINES**  
Las Palmas G.C.



**INTERNATIONAL OFFICES**  
-Italia  
-Portugal  
-Francia

## WHY CHOOSE US?

01



European technology company with a **significant R&D investment**

02



Face-to-face and online training programs (**EK Webinar Academy**)

03



Best-in-class **technical support**

04



Commercial approach exclusively **to professionals**

05



Continuous business growth opportunities with **new technological solutions**

06



Wide range of solution and real alternative **to others market players**

07



Excellent **quality/price** relationship and great retail margins

08



Continuous and qualified **commercial support**

09



**Recognized reliability** throughout hundreds of **implemented projects**


10




Full process support during **new projects deployment**. "Zero problems" policy

## THE EK RANGE


- 01




**02**




**03**




**04**




**05**



- 06




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**09**




**10**



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## BUSINESS AREAS


- 01




**02**




**03**




**04**




**05**



- 06




**07**



**08**



**09**

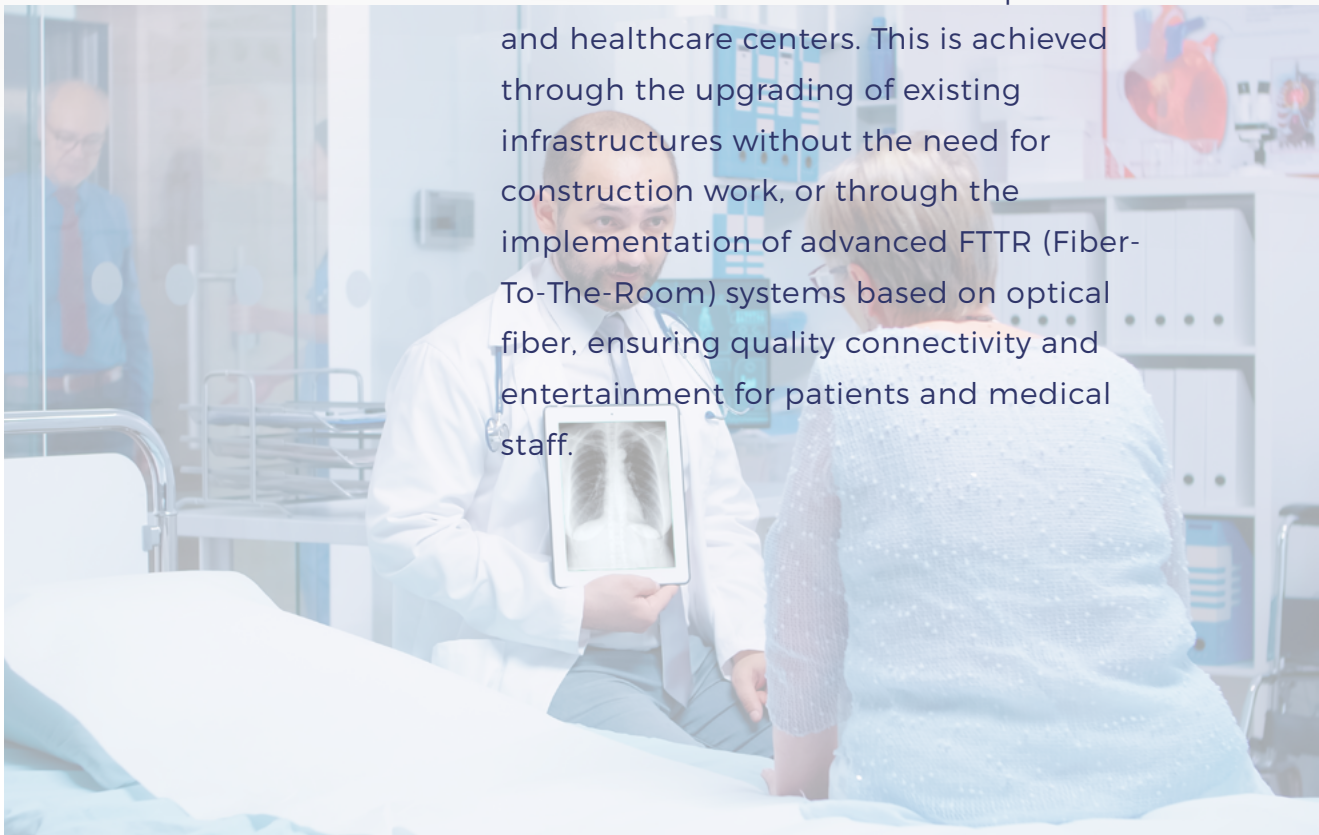


# THE TECHNOLOGICAL EVOLUTION HAND IN HAND WITH EK

**ENTER THE EK WORLD.  
PROFESSIONAL SOLUTIONS  
AT THE SERVICE OF  
HEALTHCARE CENTERS.**

EK provides the hospital and healthcare sector with a wide range of technological solutions designed to meet current connectivity and entertainment needs and demands in healthcare environments.

Based on in-house developments, EK offers a variety of professional equipment that allows for the creation of advanced multimedia environments in hospitals and healthcare centers. This is achieved through the upgrading of existing infrastructures without the need for construction work, or through the implementation of advanced FTTR (Fiber-To-The-Room) systems based on optical fiber, ensuring quality connectivity and entertainment for patients and medical staff.







**SCALABLE WIFI COVERAGE**



**FAST AND SECURE MOBILE CONNECTIVITY (BYOD)**



**PROCESSING AND DISTRIBUTION OF DTT, SAT, AND IPTV CHANNELS**



**CREATION OF INFORMATIVE CHANNELS**



**CASTING ENTERTAINMENT AND INTERACTIVITY FOR PATIENTS**



**ACCESS TO MULTIMEDIA SERVICES WITH MOBILE DEVICES**



**HOTSPOT WELCOME PORTALS DIGITAL MARKETING**



**SECURE INTERNET ACCESS WITH INFORMATION CLASSIFICATION AND NETWORK AUDITING**



**OTT - STREAMING SERVICES OVER WIFI**

# PROFESSIONAL TV/SAT/IPTV EQUIPMENT

The television entertainment offering in hospitals and healthcare centers continues to be one of the important services for patients. Providing a variety of programming and current image quality is crucial to enhancing the experience of hospitalized patients. All of this is made possible with our Headend CM solution, which offers flexible and intelligent transmodulation based on the latest digital signal processing technology.

Our wide range of equipment in modular format allows for simple scalability to adapt to the specific needs of each installation. The transmodulators available in our range can process DTT, satellite, and IPTV signals, distributing them throughout the hospital both in traditional radio frequency digital modulation and in IP. Additionally, we have digital encoders that allow for the modulation of audio/video sources to access them on all televisions in the installation, thus providing complete entertainment.





## **INFORMATIVE CHANNEL: PATIENTS ALWAYS INFORMED.**

The CM Headend also facilitates the creation of an internal channel to keep patients informed about the center's services through room televisions and informational screens.



# ADVANCED IP TELEVISION SYSTEMS OVER WIFI

The EK HEALTH server line enables the transmission of IPTV signals over the hospital's WiFi network, allowing users to access television channels on their mobile devices from any point in the facility. All of this is achieved without the need to download or install specific applications.



## WIFI NETWORK OPTIMIZATION ENSURING REDUCED NETWORK BANDWIDTH CONSUMPTION



The compression technology used by EK servers optimizes the WiFi network, ensuring lower consumption of available bandwidth. This allows the hospital to guarantee quality service without compromising connection speed for other purposes. Additionally, center managers have the opportunity to monetize this service by generating tickets through the EK HEALTH platform.





# DISTRIBUTION OF INTERNET THROUGH COAXIAL CABLE

The **EKOAX PLUS** system has been specially designed to convert coaxial networks into data networks in a very simple way and without construction work. The EKOAX PLUS equipment allows for the transmission and reception of internet signals through the existing coaxial cable of a television installation, without the need to intervene on the infrastructure.







# EKOAX Plus

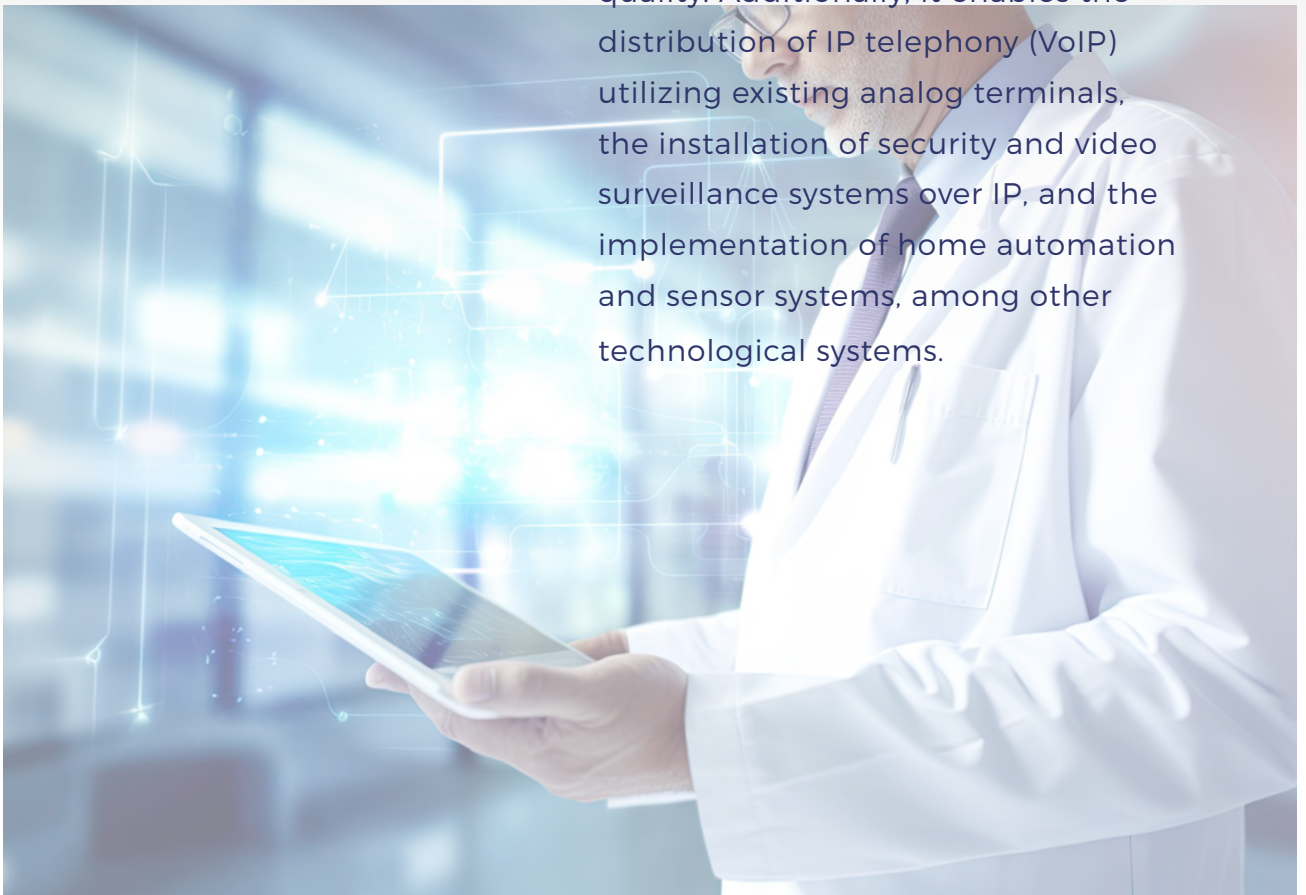
Simply by adding a master device next to the television headend and a user device at each point where internet signal is desired, the hospital can update the television installation to transmit internet and IP content at high speed. The user device also acts as a WiFi access point, allowing for the easy creation of a wireless network with high quality and reliability.

**EKOAX PLUS:  
FAST INTERVENTION AND  
MAXIMUM RETURN ON INVESTMENT.**



# FTTR: FIBER TO THE ROOM WITH GPON TECHNOLOGY BY EK

EK has advanced GPON technology, a market leader, to establish telecommunications infrastructures in the hospitality sector. GPON by EK provides high-speed internet connection and enables the distribution of RF television systems, IPTV, video on demand, and streaming with exceptional quality. Additionally, it enables the distribution of IP telephony (VoIP) utilizing existing analog terminals, the installation of security and video surveillance systems over IP, and the implementation of home automation and sensor systems, among other technological systems.



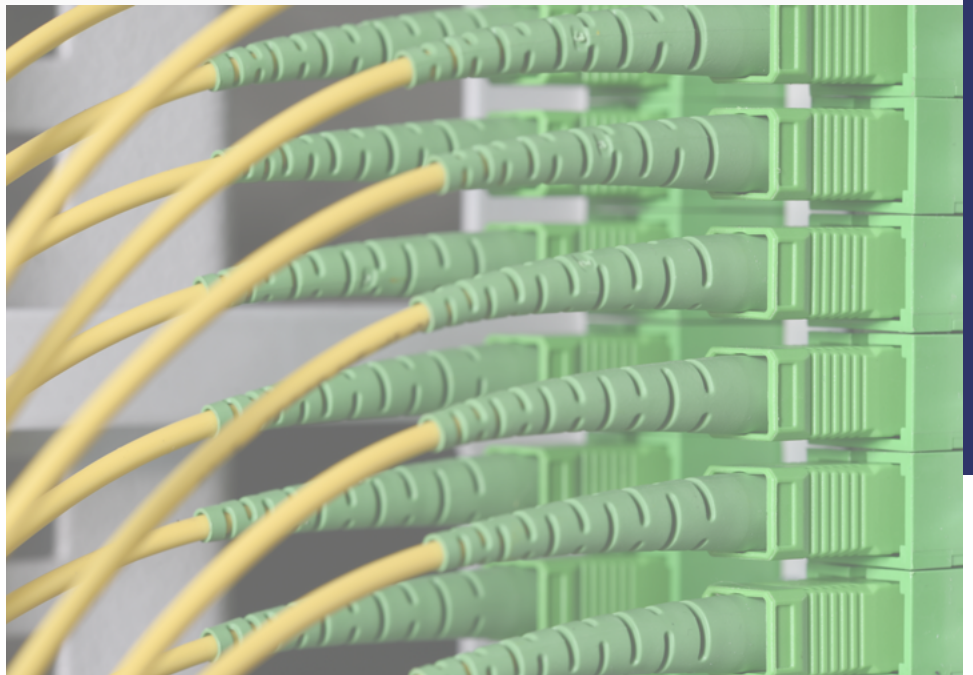
The logo for GPON by Ek features a stylized icon of four squares in a 2x2 grid, with the top-left and bottom-right squares in a light beige color and the top-right and bottom-left squares in a dark blue color. To the right of this icon, the text "GPON" is written in a large, bold, dark blue sans-serif font, and "byEk" is written below it in a smaller, dark blue sans-serif font.

# GPON

byEk

GPON technology by EK is based on the implementation of passive optical fiber networks to the room (FTTR), which already in the production phase represents significant cost savings and allows for high scalability. All of this results in an extremely high return on investment. Additionally, GPON technology by EK brings other advantages such as simpler management and maintenance through software and servers designed specifically for hospitals and healthcare centers, and a reduction in energy consumption by using fewer active elements compared to other types of traditional data networks.

**GPON, THE MOST  
ADVANCED TECHNOLOGY  
IN THE MARKET.**



# WIFI 6 ACCESS POINTS

To provide powerful and comprehensive WiFi coverage in all areas of the hospital, EK offers both indoor and outdoor access points. These access points can be centrally managed, providing a wide range of configuration options. Among these options are user management to distinguish between patients and service personnel, the creation of independent networks and coverage zones, bandwidth allocation per user, Quality of Service (QoS) definition, firewall implementation, and scheduling for WiFi coverage activation by zones and applications, among others.





The professional system of access points, switches, and network controllers by EK allows for the implementation of high-performance WiFi networks through structured cabling, in combination with GPON FTTR networks and Ekoax networks

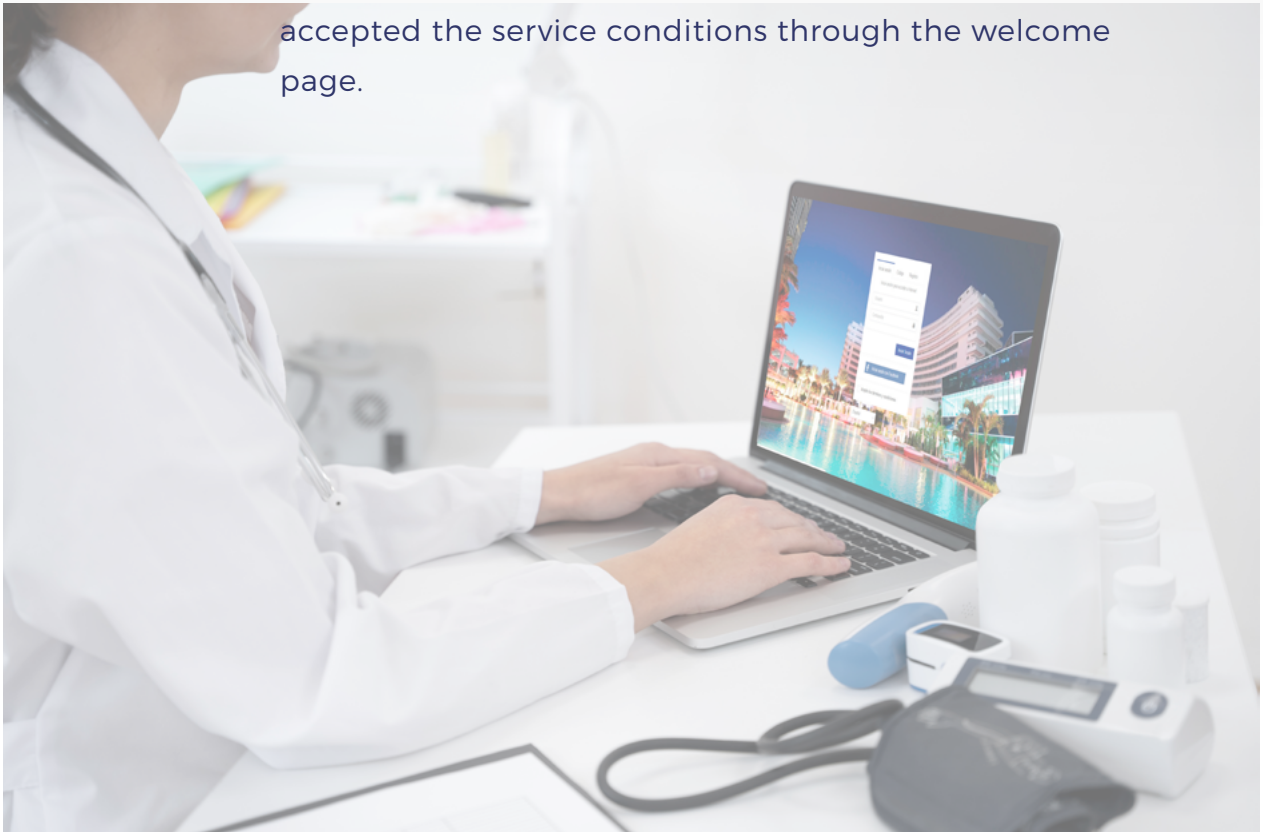
**WIFI BY EK: HIGH  
VERSATILITY AND  
ELEVATED POWER.**



# HOTSPOT BY EK: WELCOME PORTAL AND SECURITY.

EK's professional HotSpot has been specially designed for installation in hospitality environments. Through simple configuration, all necessary parameters can be defined to offer various authentication methods on WiFi networks (direct registration, email verification, tickets with predefined passwords, social networks, etc.). Additionally, the system allows for the definition of user profiles to assign connection times and speeds.

The HotSpot by EK also allows for managing user data for digital marketing purposes, provided they have accepted the service conditions through the welcome page.







In addition to the captive portal, the HotSpot by EK offers a powerful network auditing system that allows for analyzing internet consumption statistics per connection, as well as recording and storing the activity of different patients connected to the WiFi network (device identification, visited domains, connection times, etc.), all in strict compliance with current regulations on lawful interception and data protection.

# EKCAST TAKES ENTERTAINMENT IN THE HOSPITALITY SECTOR TO THE NEXT LEVEL.



NETFLIX



Rakuten



vevo



**EKCAST CAN BE IMPLEMENTED IN ANY HOSPITAL AND HEALTHCARE CENTER REGARDLESS OF THE NUMBER OF ROOMS**

- **EKCAST** enhances the multimedia entertainment experience for hospitalized patients, allowing them to enjoy their own multimedia content as well as streaming providers on the television.
- Patients will feel more comfortable enjoying content from leading **streaming platforms** on the television, including video (YouTube®, Netflix®, HBO®, PrimeVideo®, Disney®, Rakuten®...) and audio (Spotify®, Google® Play Music®, Vevo®, TuneIn®...).
- All of this is done **confidentially and securely** for the patient thanks to the management of the EkCAST server, developed entirely by EK's R&D team.
- EkCAST can be implemented in any hospital regardless of the number of rooms. Only a WiFi network and any type of television in the rooms are needed.
- The EkCAST system represents a one-time investment for the hospital. **With no recurring payments** or annual royalties, EkCAST is an excellent investment in CAPEX that will enhance the patient experience without increasing operating expenses.



**EkCAST**

# EK HEALTH, EK'S PLATFORM FOR MULTIMEDIA CONTENT DISTRIBUTION IN HOSPITALITY ENVIRONMENTS.



**EK HEALTH** is EK's platform designed for multimedia content distribution in hospital and healthcare center environments. In addition to facilitating the organization and distribution of audio/video services in IPTV format to the rooms, either through IP multicast or Web TV (RTMP, HLS, among others), the system also allows for the management of digital signage screens for product and service promotion.



# STRENGTHS EK HEALTH PRODUCTS

- 1 IPTV multicast processing server adapted for healthcare environments
- 2 Web TV for hospitals / nursing homes
- 3 Simplified configuration portal
- 4 Customizable channel and information setup based on patient or resident characteristics
- 5 Option to create notifications, alerts, or alarms directed to the staff responsible for patient or resident care
- 6 Centralized shutdown and startup of receivers
- 7 Option for maximum volume limitation
- 8 Centralized and timed channel selection.
- 9 Playout of 2 or 5 channels (depending on model)
- 10 Task scheduler
- 11 VoD (depending on model)



# EK HEALTH FUNCTIONALITIES

## Two channel list formats:



Channel logo mosaic



Classic channel list  
with channel names

## In either of the two infrastructure scenarios presented:



Option to create a corporate channel for the center (daily menus, daily activities, photos of parties and events at the Residence) in slideshow carousel mode that can be viewed as an additional channel on the channel lineup.



Option to create a specific channel for digital signage screens (with corporate information, advertising, information about center events and activities, etc.).



## Viewing of streaming platforms



Access to the applications of the most popular streaming platforms from the app installed on each receiver with the resident's own account.

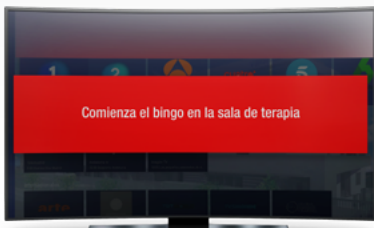
## Customized remote controls



Define with the property type of models according to:

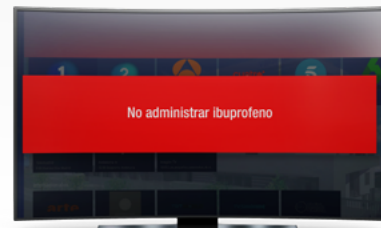
- ✓ Level of resident dependency
- ✓ Type of services contracted by the resident
- ✓ Specific needs

## Other possible functionalities



Capability to send alert messages to the rooms and digital signage screens, for example, indicating that it is lunch or dinner time, fully personalized based on the established shifts for each resident. It could even include the broadcast of pre-recorded audio messages. For example:

- ✓ "It's lunchtime"
- ✓ "The bingo in the therapy room is starting"



Capability to send notifications to the center's staff to the receiver in the room they are attending to a resident with information about:

- ✓ Medication to be administered to the patient.
- ✓ Instructions to consider when putting the patient to bed or getting them up.
- ✓ Any other care guidelines for the resident.

# WIFI TEMPERATURE CONTROLLERS FOR REFRIGERATION SYSTEMS



**Sondek THERM** offers an efficient solution for temperature management in medical and pharmaceutical environments. Our line of WiFi controllers is designed to provide precise and versatile control over refrigeration equipment of any type, as they adapt to the standard slots of any refrigerator model, from shelves to freezing chambers. Sondek THERM will allow you to maintain medical equipment, drugs, vaccines, etc., at the specific temperature required for each case.

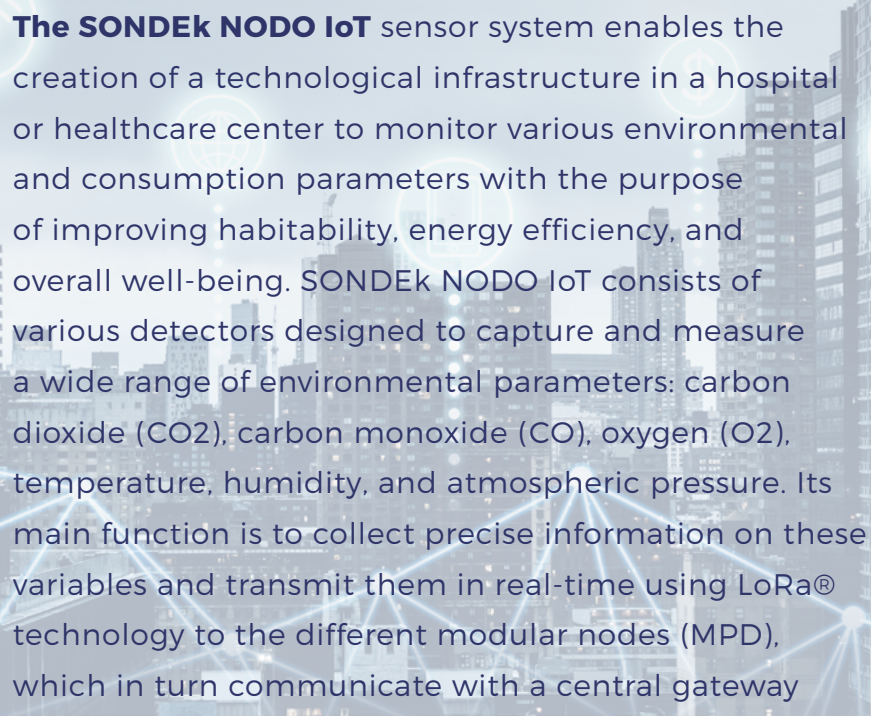
In addition to offering precise temperature control, our WiFi controllers are equipped with advanced technology and a user-friendly interface. This allows for optimal management of refrigeration and freezing systems through a powerful mobile application. With Sondek THERM, healthcare professionals can be assured that their products and equipment are stored under optimal conditions and monitored at all times, regardless of the environment or specific temperature requirements.



# PROFESSIONAL SOLUTION FOR MEASURING ENVIRONMENTAL PARAMETERS

## SONDEk

NODO IoT



**The SONDEk NODO IoT** sensor system enables the creation of a technological infrastructure in a hospital or healthcare center to monitor various environmental and consumption parameters with the purpose of improving habitability, energy efficiency, and overall well-being. SONDEk NODO IoT consists of various detectors designed to capture and measure a wide range of environmental parameters: carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxygen (O<sub>2</sub>), temperature, humidity, and atmospheric pressure. Its main function is to collect precise information on these variables and transmit them in real-time using LoRa® technology to the different modular nodes (MPD), which in turn communicate with a central gateway (HDR - IoT Node).

It is this IoT Node that securely stores all environmental factors so that data analysis can identify patterns and take preventive or corrective measures, even automatically.

# EK AND THE HOSPITALITY SECTOR

The professionals comprising the EK team have over 25 years of experience designing technological solutions for the hospitality sector, consistently adapting to the market's needs and demands. EK boasts an extensive distribution network that supports qualified integrators, who, with excellent support provided by EK's technical office, carry out professional projects and installations in hotels across 30 countries.





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