شركة خدمات الكمبيوتر الكويتية
KUWAIT COMPUTER SERVICES

SECURING YOUR WORLD
SINCE 1976

Smart IoT Solution for

Hospital & Health Care

Solutions for Smart Hospital & Health Care

Several healthcare organizations have already adopted IoT devices in their facilities to make it a SMART HOSPITAL. IoT technology is being installed in everything from X-Rays, Laboratories and Blood Banks to Patient Rooms, and it is making healthcare facilities smarter. The futuristic approach is inevitable in hospitals as in the future healthcare will look & operate very differently than they do now, and it will be the same for patients and healthcare professionals.

Here are some of the ways IoT is transforming the healthcare industry:

- Sensor-driven lighting and climate control technology can follow patients' natural body movements and allows them to monitor the room settings from their own smart device or bedside terminal. So they can adjust the lighting, blinds and temperature on their own for maximum comfort—instead of relying on the hospital staff. Not only does this technology create a more comfortable environment for patients, it also provides better working conditions for medical professionals. By pre-defining lighting sessions, hospital personnel can optimize illumination and room temperature for medical procedures and therapeutic treatments.

- Hospital beds equipped with IoT-enabled patient monitoring technology can track patients' vital signs and movements and alert nursing staff if there are any changes that could impact recovery. Bed sensors also alert hospital staff when a bed is free which helps to significantly cut down wait times in emergency rooms.

- Sensor-driven automatic sliding doors throughout a hospital helps decrease the possibility of spreading of infection by minimizing touch points. They also speed up access in situations when each and every moment can be critical.

- In the hospital rooms of the future, patients will not be in the dark when it comes to being informed about their health. They'll be able to view up-to-the-second information on their health status (blood pressure, heart rate and other vitals, lab results as well as wait times to see a nurse or the attending physician) on their own mobile devices or on digital dashboards attached to their hospital beds.

Innovations like these will result in better experiences and the quality of care for patients, leading to greater operational efficiency for hospitals, clinics and rehabilitation facilities. Given IoT's vast potential, it is not surprising if the global healthcare industry spends on IoT technology and explores it to its fullest.

Solutions for Smart Hospital & Health Care

Temperature & Humidity

Air Quality & CO_2

Fire/Smoke Detection

Power Consumption

Water Leak Detection

Emergency Call Button

Occupancy Monitoring

Personal Tracking

Static & Dynamic Asset Tracking

Lighting Control

Siren Early Warning System

Smart Curtain Open/Close

How System works?

Measurable Key Metrics

Few of the metrics that Watch*NET* IoT can monitor and analyze cold storages or special climate-controlled storages are as below:

Humidity of the room at different zones in the facility

Wireless Temperature and Humidity Sensor For Low Temperature

This commercial-grade temperature and humidity sensor can be used to monitor the temperature and humidity of a low-temperature environment and notify personnel by a text message, email or phone call through our hosted online platform if the values go out of the set optimal range. This sensor is rugged and IP65 rated for a humid and moist environment. This device has a magnetic back panel that can be mounted on any metal surface.

WLRC-S16L

Temperature of the room/ facility at different points

Wireless Temperature and Humidity Sensor For Low Temperature

This commercial-grade temperature and humidity sensor can be used to monitor the temperature and humidity of a low-temperature environment and notify personnel by a text message, email or phone call through our hosted online platform if the values go out of the set optimal range. This sensor is rugged and IP65 rated for a humid and moist environment. This device has a magnetic back panel that can be mounted on any metal surface.

WLRC-S17

Single or dual probe thermocouple to monitor temperature and respond to even minimal changes

Wireless 2-Gang Thermocouple Sensor -Type K

This commercial-grade K Type thermocouple sensor can be used to monitor the temperature of the specific substance or environment and notify personnel by a text message, email or phone call through our hosted online platform if the values go out of the set optimal range. The device comes in a sealed box making it moisture-proof and it withstands extreme conditions. This sensor is rugged and IP65 rated for a humid and moist environment. This device has a magnetic back panel that can be mounted on any metal surface.

WLRC-S18K2

Three phase current meter to monitor and determine the efficiency

Wireless 3-Phase Current Meter with 3 x 75A Clamp

This commercial-grade current meter can be used to monitor the current usage of any equipment, whether it is a single-phase or a three-phase.The device comes in a sealed box making it moisture-proof and it withstands extreme conditions. This device can be installed on any metal surface as it comes with a built-in magnet. The core of this sensor that goes around the live wires can be opened and are easy to install on an existing set-up. Current monitors can help in predictive maintenance of any equipment that may overdraw or work using higher current than specified by the manufacturer.

WLRC-M375

Single phase current meter to monitor each compressor can determine the efficiency

Wireless 1- Phase Current Meter with 1x75A Clamp-On

This commercial-grade current meter can be used to monitor the current usage of any equipment whether it is single-phase or three-phase.The device comes in a sealed box making it moisture-proof and withstands extreme conditions. This device can be installed on any metal surface as it comes with a built-in magnet. The core of this sensor that goes around the live wires can be opened and are easy to install on an existing set-up. Current monitors can help in predictive maintenance of any equipment that may overdraw or work using higher current than specified by the manufacturer.

WLRC-M175

Water leak sensors for storage area

Wireless Water Leak Detector with Rope Sensor

This commercial-grade water sensor can accurately detect water leak detection and send out notifications immediately. Supervised online/offline status and battery monitoring also helps to ensure product readiness when it occurs. The water detection rope can be extended up to 300m (1000ft) for monitoring larger areas.

WLRC-D14

Door Contact Sensor can be installed to monitor door opening or closing and if open for too long

Wireless Dry Contact Interface

This commercial-grade sensor can be connected to external dry contact devices, such as various switches, buttons, relays and reed switch outputs. It can detect the closure or disconnection signal from the dry contacts. Based on the SX1276 wireless communication module, wireless communication is secured with proprietary encryption.

WLRC-I14

Wireless RS485 Adapter

This device is an RS485 to Wireless Converter that can communicate to devices that use the RS485 communication protocol. This adaptor uses 12V DC power. Cloud based control and notifications from legacy devices is not possible.

WLRC-A11

Wireless Occupancy/Light/ Temperature Sensor

This commercial grade occupancy sensor is a three-in-one device that can give information about the presence, temperature and light level of any room. These three factors combined can ideally monitor any room or area for the time occupied. It can even be used as a security device to detect ntrusion in all the premises.

WLRI-S25

Wireless Vibration Sensor, Rolling Ball Type

This commercial grade sensor helps pick up small vibrations or movements with this rolling ball type vibration detector. It can be used as a glass break sensor, material or surface vibration, intruder prevention, and so on. This device has a magnetic back panel that can be mounted on any metal surface. Immediate alerts can be sent by a text message, email or phone call through our hosted online platform.

WLRC-S19R

Vibration Sensor, Spring Type

This commercial-grade vibration detection sensor can be used to detect vibrations on mechanical equipment and on any surface that needs to monitor vibrations. The device is small and has a sleek design making it easy to install and handle. This device can be used to monitor machinery, vibrations for too long, vibration count per day and no vibration at all. This device helps in predicting maintenance by analyzing the efficiency of the machine on a daily basis.

WLRC-S19S

Gateways

Watch*NET* IoT gateways are one of the smart and intelligent devices within our IoT ecosystem.

It collects data from devices that do edge-based processing and then sends it to the cloud for storage, display and analytics.

This gateway works as a stand-alone controller to link devices connected to it and triggers actions accordingly to input logic to output devices. Basic or complex rules can be set on this gateway that can work in an online or offline state within the network.

- Edge-based data processing
- LAN, WAN and connectivity
- Low Bandwidth consumption
- Built-in Wi-Fi Gateway

Wireless Smart IoT Gateway

This intelligent smart gateway provides cloud connection and control of devices connected. Supporting multiple technologies for communication such as LAN and WiFi makes this gateway deployment easy in any building. Easy installation and configuration make it ideal for small or large projects of environmental monitoring and control. The built-in powerful antenna is capable of receiving long-range signals.

WLRI-G11

Mini Smart Gateway

This small form factor smart gateway provides cloud connection and local control of devices connected to it. It is economical, easy to install and its configuration makes it ideal for small projects of environmental monitoring. The built-in powerful antenna is capable of receiving long-range signals.

WLRI-G12

Watch*NET* IoT Cloud Software & Mobile APP

1. Around-the-clock monitoring
2. Compatible with 100s of sensors & devices (LoRa & NB-IoT)
3. Real-time status update
4. Instant alert & notification
5. Customizable Dashboard & Floor Layouts with Quick Data Visualization
6. Manage data from one platform
7. Intuitive report with accurate historical records
8. Powerful eMAP - Data visualization with actionable decisions
9. Enhanced data logging
10. Impressive web-based interface and mobile APP
11. Powerful OFFLINE LINKAGE feature enables the devices to act on critical scenarios even if the gateway is not connected to the internet
12. INTELLIGENT ANALYTICAL ENGINE can provide smart suggestions and warnings

Smart Hospital Sensors

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WLRC-S16L

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97221371 | 97221375 | 97752860 | 97931212

www.kcs.com.kw | sales@kcs.com.kw