

WatchNET^{IoT}

Connect Any Thing, Connect Any Where

Smart IoT Technology for
DATA CENTRE



Data Center Environment Monitoring

A data center covers the network's most critical system and prime functioning. Every business and organizations needs a reliable facility for IT infrastructure.

WatchNET IoT Sensors are easy to install to do monitoring and control of the environment easily scalable with add-ons as needed for expansion.

The precise location of a water leak under the raised floor can be easily detected along with the other key metrics. Air conditioning control, Switch monitoring, UPS status, Vibration, Temperature humidity - all are displayed on the Dashboard.



How System works?



To list some of the functions are monitoring temperature, humidity, hot/cold air pressure, air flows, carbon dioxide emission, detecting leakages, smoke and flood, providing per-rack environment displays, custom airflow mapping, overall environment KPIs, environment dashboards and more. A key benefit from all this is dynamic baselining and threshold violation alerting.

What is IIoT ?

- Industrial IoT brings equipment, machines, advanced analytics and people together on one, meaningful information platform.
- IIoT is a network of multiple industrial devices connected by secure communications technologies that result in one ecosystem that can collect data, monitor, exchange, analyze, and deliver valuable new insights like never before to today's performance oriented workplace.
- These insights can then drive businesses to making smarter and faster business decisions that help save energy, learn operating patterns and perform predictive maintenance for commercial, industrial and small business.



Measurable Key Metrics

Few of the metrics that WatchNET IoT can monitor and analyze in Data Centres are:

Humidity & Temperature of the data centre at different points:



Wireless Temperature and Humidity Sensor For Low Temperature: **WLRC-S17**

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



Monitoring of Doors - opening/closing of server racks and entry/exit



Wireless Dry Contact Interface **WLRC-I14**

The WLRC-I14 can be connected to external dry contact devices, such as various switches, buttons, relays and reed switch outputs. It can detect the closure or any signal that gets disconnected from the dry contacts.



Water Leak Detection under a raised floor



Wireless Water Leak Detection and Location Sensor **WLRI-S46**

WLRI-S46 is a water leak detector sensor that can pinpoint the location where the water touched the rope. Mostly when installed under elevated flooring and building risers, it is useful to know the location of the water and take necessary action to limit the damage. The location data is sent to the gateway and alerts are given.



UPS Monitoring IN/OUT AC current, single-phase or three-phase:



Wireless 3-Phase Current Metre with 3x150A Clamp-On **WLRC-M3150**

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 an inbuilt magnet. The core of this sensor that goes around a built-in 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.



Server and Switches - Power Monitoring and Remote Restart



Wireless Plug-and-Play Power Outlet with Consumption Meter **WLRI-P11M**

This power plug can support up to 15 Amps powering most of the residential/commercial power equipment. Ideal to monitor power for machines that need to be switched ON all the time. It helps monitor power consumption, voltage, electric current, power failure and usage per day to any connected equipment. It works great for extending the life cycle by identifying frequently used equipment as in gymnasiums.



Vibration sensor for server racks



Vibration Sensor, Spring Type **WLRC-S19S**

This commercial-grade vibration detection sensor can be used to detect vibrations on mechanical equipment and on any surfaces to monitor vibrations. The device is small. 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 if too many or none at all and count per day. This device helps in predictive maintenance by analyzing the efficiency of the machine on a daily basis.



Split Air conditioner Temperature Control and Remote Cycling between Operating and Standby Mode



Wireless IR Blaster **WLRI-IRB1**

WLRI-IRB1 IR blaster can be used for understanding IR signals from any remote control and reproduce the same signal to control equipment remotely. It can be used for controlling split AC units that only have built-in temperature control.



Other Special Application Devices: Audio visual Alert, Occupancy Sensor, Power Metre with Remote On/Off



Wireless Siren **WLRI-SR1**

This wireless annunciator can be used with any WatchNET IoT device to generate a siren, which can be triggered by a condition/event of another device, which are enabled with high-powered speakers and LEDs. Multiple alert tones can be assigned to different kinds of alarm conditions.



Gateways

WatchNET 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 according to input logic to output devices. Basic or complex rules can be set on this gateway that can work online or offline state within the network.

- Edge-based Data Processing
- LAN, WAN and Connectivity
- Low Bandwidth Consumption
- Built-in Wi-Fi Gateway

Integrated Wireless IoT Controller **WLRI-G11**

This intelligent smart gateway provides a connection to the cloud that enables control of devices. It supports multiple technologies for communication such as LAN, WiFi and makes the gateway's deployment easy in any building. Easy installation and configuration also makes it ideal for small or large projects of environmental monitoring and control. The built-in powerful antenna is capable of receiving long-range signals.



Mini Smart Gateway **WLRI-G12**

This small form factor smart gateway enables connection to the cloud and local control of devices connected to it. Economical and easy to installation and configuration makes it ideal for small projects of environmental monitoring. The built-in powerful antenna is capable of receiving long-range signals.



WatchNET IoT Cloud Software & Mobile App

- 1) Around-the-clock monitoring
- 2) Compatible with 100s of sensors & devices
- 3) Real-time status update
- 4) Instant alert & notification
- 5) Manage data from one platform
- 6) Intuitive report with accurate historical records
- 7) Powerful eMAP
- 8) Enhanced data logging
- 9) Powerful web-based interface and mobile app





WatchNET®

SECURITY SINCE 2000



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