

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 organization needed a reliable facility for IT infrastructure.

WatchNET IoT Sensors are easy to install to do monitoring and control of the environment easily scalable with addons 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. And air conditioning control, Switch monitoring, UPS status, Vibration. Temperature humidity all are displayed on the Dashboard.



How System works?



Monitor temperature, humidity, hot/cold air pressure, airflows, carbon dioxide emission. Detect leakages, smoke and flood. Provide per-rack environment displays, custom airflow mapping, overall environment KPIs, environment dashboards, and more. Benefit from dynamic baselining and threshold violation alerting.

What is IIoT ?

- Industrial IoT brings equipment, machines, advanced analytics, and people together to a meaningful information platform.
- IIoT is a network of multiple industrial devices connected by secure communications technologies that results in one eco system 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 help drive smarter, faster business decisions that can save energy, learn operating patterns and perform predictive maintenance for commercial, industrial and small business.



WatchNET Server room solution

WatchNET IoT Server room monitoring solution is quick and easy to install. Wireless LoRa technology that will not interfere with the computer equipment and will avoid accidents by installers struggling with bundles of wire. Easy setup of limits on our platform for quick notification of your choice when there are changes in the environment or malfunction of equipment. Well laid out customized dashboard displays and reports.

Measurable Key Metrics

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

Humidity & Temperature of the data center at different points:



Wireless Dry Contact Interface **WLRI-S17**

The WLRI-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 disconnection signal of the dry contacts. Based on SX1276 wireless communication module, wireless communication is secured with proprietary encryption.



Monitoring of Door open/close for server rack doors and entry/exit doors



Wireless Dry Contact Interface **WLRC-I14**

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Water Leak detection under the raised floor



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



UPS monitoring IN/OUT AC current single phase or three phase:



Wireless 3-Phase Current Meter 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 the live wires can be opened and are easy to install on an existing setup. Current monitors can help in predictive maintenance of any equipment that



Server and switches power monitoring and remote restart:



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

This power plug can support up to 15Amps powering most of the residential/commercial power equipment. Ideal to monitor power for machines that need to be ON all the time. Monitor power consumption, voltage, Amps, power failure and number of timed used per day to any connected equipment. Great for extending life cycle by identifying frequently used equipment such as in gym.



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 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 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:



Wireless IR Blaster **WLRI-IRB1**

WLRI-IRB1 IR blaster can be used for IR signal learning 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 meter with remote on/off:



Wireless Siren **WLRI-SR1**

This wireless annunciator can be used with any WatchNET IoT devices to generate sirens which can be triggered by a condition/event of another device. This device has high powered speakers and LEDs to seek the attention of personnel around.

Multiple alert tones can be assigned to different 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 cloud connection and control of devices connected. Supporting multiple technologies for communication such as LAN, WiFi and make 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.



Mini Smart Gateway **WLRI-G12**

This small form factor smart gateway provides cloud connection 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) Round the clock monitoring
- 2) Compatible with 100s of sensors & devices
- 3) Real-time status update
- 4) Instant alert & notification
- 5) Manage data in one place
- 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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YEARS

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Watchnet IoT Industry Solution

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