TEKON
WIRELESS SENSORS TECHNOLOGY

Connect edge devices and sensors to the cloud for data processing, analysis and decision-making in real time

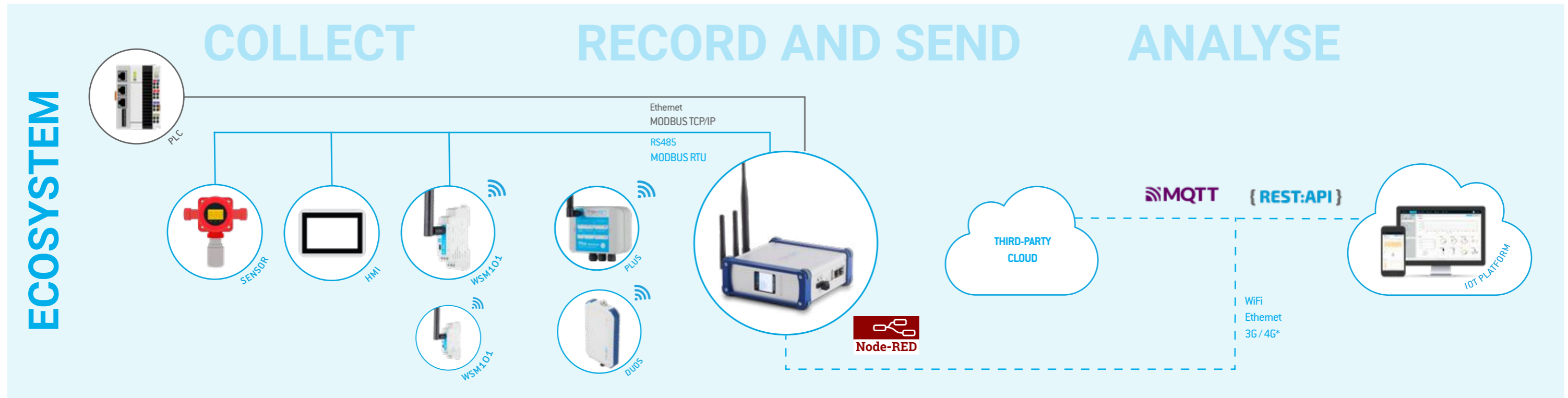# Universal Gateway

IIoT MADE EASY

Collect, record and send data to the cloud

In the fast-paced world of information technology, more industries are using IoT devices to collect large volumes of data. More often than never, this data is transferred to a centralized storage system like the cloud for analysis and storage. The Universal IoT Gateway connects edge devices and sensors to the cloud or data center for real-time data processing, analysis, and decision-making. Local and remote applications can be monitored by aggregating data into a platform to obtain insights for your business.

From wireless connections to physical connections, the possibilities for acquiring, accessing, and viewing data are vast and can be adapted to each application. See how the Universal IoT Gateway can be the core of an IIoT universe.

Create a more intelligent business

ECOSYSTEM

COLLECT   RECORD AND SEND   ANALYSE

PLC

Ethernet
MODBUS TCP/IP

RS485
MODBUS RTU

SENSOR

HMI

WSM101

PLUS

WSM101

DUOS

Node-RED

THIRD-PARTY CLOUD

MQTT   { REST:API }

WiFi
Ethernet
3G / 4G*

IOT PLATFORM

Advantages of Universal IoT Gateway

Optimize efficiency

From HVAC applications, cold chain storage, air quality monitoring, power distribution cabinets, and other equipment, the Universal IoT Gateway works as a device maximizing equipment efficiency with the provision of accurate data.

Open solution for third-party systems

With MQTT connectivity, the Universal IoT Gateway simplifies the collection of data from heterogeneous devices, making interoperability a reality. Gather data from sensors, machines, and systems, all in one place.

Remote and on-site applications

Wireless communications through Wi-Fi and GSM enables a real-time access to data from remote applications for quick and imediate analysis. Monitor devices and systems from anywhere.

Modbus   MQTT   Node-RED

Cost-effective and versatile

The Universal IoT Gateway combines performance and affordability in a smart solution. With two enclosure versions available, you can choose the one that best suits your needs. Maintain flexibility without compromising quality.
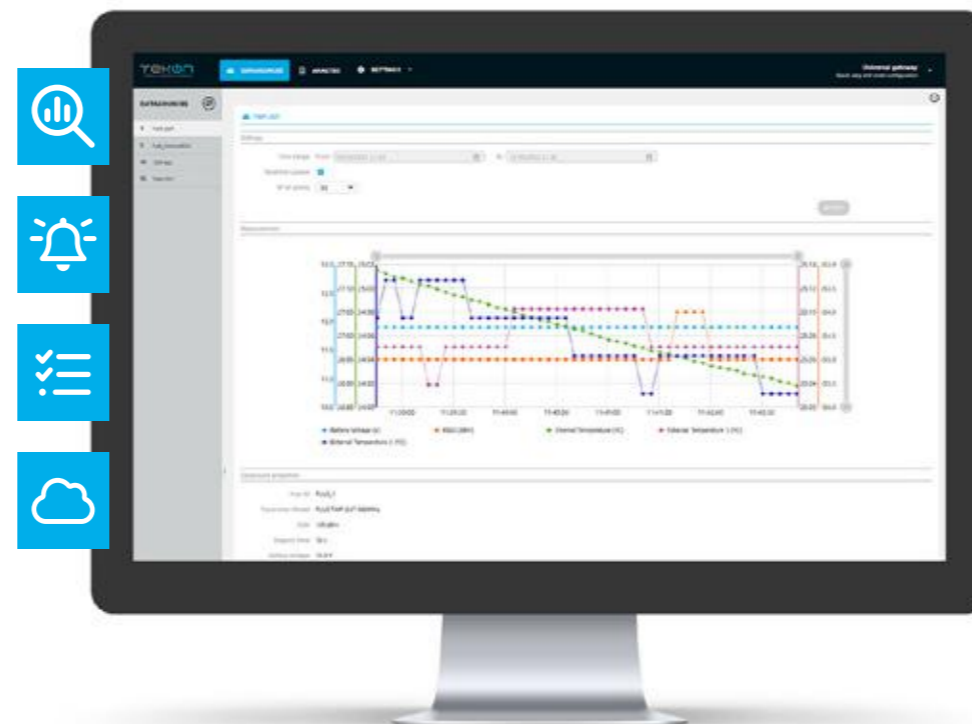
User interface

Through the browser-based user interface, the transmitted data offers users the highest level of transparency. Accessing product data during the development enables rapid planning and reduces timelines. Processes become measurable, enhancing production flexibility.

Data analysis

Real-time data analysis offers instant insights, swift decision-making, and rapid response to critical events. An approach that enhances operational efficiency and optimizes resource utilization leading to improved productivity and competitiveness.

Real-time alarms and notifications

Set up alarms and notifications sent via SMS and/or email to implement actions and ensure the safety of the entire process in real-time.

Device management

Ensure quick access to data from Tekon transmitters received via wireless or from devices connected through the RS485 port, enabling the implementation of applications with various architectures.

IoT platform connectivity

The user interface enables the consolidation of all information across the entire process chain into Tekon IoT Platform or a third-party cloud. Sensor and process data can be visually represented, essential performance metrics can be accessed, and processes can be monitored effectively.

TECHNICAL SPECIFICATIONS

Model	ALUMINIUM
Processor	Arm Quad Core Cortex-A72 64-bit SoC
I/O	WiFi LAN: 2.4 GHz Radio wireless interface 868/915MHz (used by Tekon transmitters) Mobile: 3G/4G cellular Modem (optional) Serial: RS-485 Ethernet: 100/1000 Mbps
Memory	16 GB eMMC flash
Protocols	Modbus RTU, Modbus TCP/IP, MQTT
Display	128 x 160 color pixels
Power Supply	12 to 30 V DC
Operating Environment	-10ºC to 50ºC
Dimensions	151 x 150 x 61 mm

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