LINORTEK

ITRIXX® WIRELESS EQUIPMENT MONITOR SYSTEM

A TCP/IP Web-Based Platform that Simplifies Data Collection, Control, Alerts for Industrial Equipment

Applications

◊ **Monitor Equipment Usage**

◊ **Monitor Machine Uptime/Downtime**

◊ **Operation Counter**

◊ **Monitor Vibration**

◊ **Monitor operator behavior (impacts)**

◊ **And More...**

iTrixx is an IoTMeter which was developed on Linortek's secure TCP/IP product platform with MQTT protocol, that provides the same universal connectivity, easy to setup, flexible data collection, WiFi/Ethernet connectivity, making the iTrixx a great fit for industrial equipment remote control and monitoring in real-time, improving operational efficiency and uptime with no monthly subscription fees.
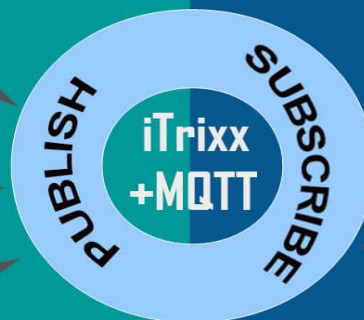
Field Devices

Mobile Equip.

Stationary Equip.

Prod. Machine

Sensors

PUBLISH **iTrixx +MQTT** **SUBSCRIBE**

Industrial Applications

SCADA

Alarming

Billing

CRM

Features & Benefits

Cost Effective

All-in-one system with built-in web server, no software to purchase, no 3rd party server and no monthly fees.
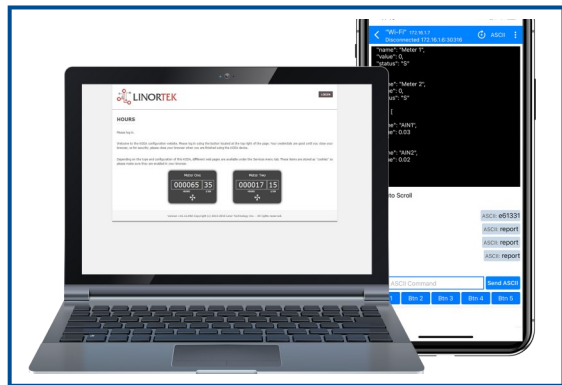
Data Security

iTrixx is NOT a cloud based system. All data is stored locally at your facility giving you full control of collected records.

Remote Monitoring

Connect offline equipment to the network, monitor it from any PC on your network

Flexible Data Acquisition

Collect the data that matters to your business with the built-in digital and analog inputs

Easy to Deploy

Setup in minutes, automatically transfer data to your database over the network

Built In the USA

Linortek is dedicated to bringing jobs to Americans, We're proud to build products in the U.S.A. with global materials. We source raw materials and components from around the world when they are not available in the United States

Products

WFMN-ADi

Built-in web server, 2 relay outputs, 2 digital inputs, 2 analog inputs, IP 66/67 enclosure, Wi-Fi connectivity
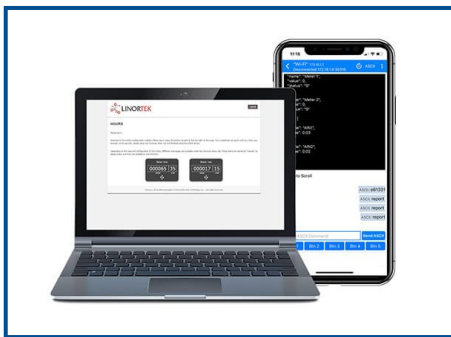
WFMN-Di

Built-in web server, 2 digital inputs, IP 66/67 enclosure, WiFi connectivity
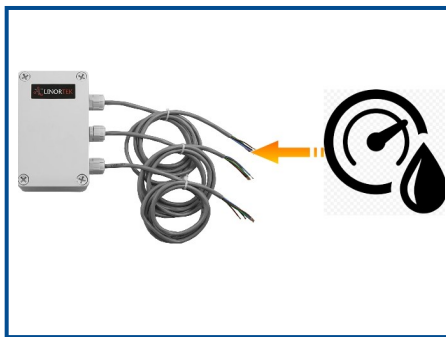
NHM

Built-in web server , 2 digital inputs, 2 relay outputs, 1 analog input, DINRail Mountable enclosure, Ethernet connectivity

How It Works

Step 1

Connect iTrixx to the network, configure the software from your PC or mobile device, setup the data integration as needed.

Step 2

Connect any sensor or power source to iTrixx Server to trigger the meter.

Step 3

Install the iTrixx on your equipment, 24/7 continuous monitoring remotely, instantly get real-time data and alerts.

Case Study: Collect production machine runtime hours for predictive maintenance

Since 90 percent of machine maintenance is based upon hours instead of miles, the iTrixx IoTMeter is an ideal tool for keeping up with preventative maintenance schedules. This device can help extend the lifecycle and performance of powered equipment as well as tracking a range of equipment across a warehouse, construction site or multi-location company.

A manufacturer in the US automated the collection of their production machine runtime from 3 locations across the States by using the iTrixx NHM, eliminating the need to physically visit each piece of machine to manually collect data, using the iTrixx NHM RESTful API to send the data to their ERP manufacturing system automatically. It allows the service team to focus on troubleshooting and complex problem solving, saving tremendous time on data collecting and reducing operation costs.

Applications

ITRIXX MANUFACTURING MACHINERY MONITORING

Upgrade your production machinery to be a network enabled device with iTrixx equipment hour meter. Implement hour-based maintenance alerts to eliminate machine downtime and increase business revenue

Since 90 percent of machine maintenance is based upon hours instead of miles, the iTrixx is an ideal tool for keeping up with preventative maintenance schedules. This device can help extend the lifecycle and performance of the machine as well as collect runtime and operational data. It can then automatically transfer this data to an existing database for a single site or multiple locations.

What to monitor: Machine usage, Idle time, vibration, voltage, machine uptime/downtime, amount of stops, and number of repetitive operations.

ITRIXX MOBILE EQUIPMENT MONITORING

Innovative WiFi enabled equipment hour meter uses 'Internet of Things' technology collecting equipment run time data for preventative maintenance.

Many companies are faced with the costly predicament of logging the run time for their industrial vehicles and equipment to ensure a proper maintenance schedule. With the costs of having to make visits to record data logs and equipment files, the use of an iTrixx eliminates this by allowing the collection of data logs remotely and simplifies the process of routine maintenance. This exciting new technology enables monitoring, data collection to reduce cost, improve efficiency.

What to monitor: Equipment usage, operator behavior (impacts)

Technical Specifications

General Information			
Model	Network Hour Meter (NHM)	WFMN-ADi	WFMN-Di
Part#	01-910-00024	01-910-00060	01-910-00064
Technical Specification			
Web Server	Built- In (All Software Located on Built-in Web Server)		
Relay Outputs	2 (1 FORM A 110/220V 10A)	2 Signal Relay(2 Form C (1A @ 30VDC, 0.3A @ 125VAC)	NA
Digital Inputs	2 Optically Isolated and 2 Pull Down for Contact Close (Switch Selectable), 5-24 VDC		
Analog Inputs	1 (for Temp&Humid only)	2 (Non-isolated 0-5V)	NA
Record Time (hrs)	0 – 999,999.99		
Data Collection	UDP, RESTful API, XML	JSON, UDP	
MQTT Protocol	NO	Yes	Yes
Data Monitoring	Local or Remote		
Maintenance Alarms	Email (only support non-SSL email server),Audible, Visible (Signal Device Required)	Email (SSL)/Audible, Visible (Signal Device Required)	Email (SSL email supported)
Power Input	12VDC or POE	12-48VDC	12-48VDC
Enclosure	DIN Rail Mountable	IP66/67 Polycarbonate Box	IP66/67 Polycarbonate Box
Dimensions	70mm x 100mm x 25mm	75mm x 125mm x 35 mm	75mm x 125mm x 35 mm
Accessories	12VDC Power Supply, RJ45 Cable (1M), DIN Rail Mount	12VDC Power Supply	12VDC Power Supply
Certifications	NA	FCC, CE and ROHS	FCC, CE and ROHS
Network Connectivity	Ethernet	Wi-Fi (802.11 b/g/n)	Wi-Fi (802.11 b/g/n)
Working Temperature	From 0 to +65 Celsius		
Storage Temperature	From -40 to +125 Celsius		
Humidity	From 10% to 80% Non-condensing		
Supported Protocols	HTTP/ SMTP/SNTP		
WLAN Interface			
WiFi Transmission Protocol	NA	IEEE 802.11b/g/n 2.4GHz	
Radio Output Power		802.11b /11Mbps: 17dBm ±1dB	
		802.11g /54Mbps: 16dBm ±1dB @ EVM -28dB	
		802.11n /72Mbps: 14dBm ±1dB @ EVM -30dB	
Frequency Range (MHZ)		2412.0 – 2462.0	
Security Protocols		WPA/WPA2 Personal, TLS, and SSL	
Network Services		DHCP, DNS, TCP/IP (IPv4), UDP, HTTP	
Certifications		FCC, CE, IC, and TELEC Certified; RoHS compliant	