



Industrial energy monitoring devices

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Our Bulletin 1420 PowerMonitor(TM) 500 features an on-device LCD display in a compact footprint giving you instant visibility into your energy use. A cost-effective sub-metering option, our monitor provides critical data to help you make at-process decisions, reduce energy use, and increase your company's profits.

Each FactoryTalk offering centers on driving your business performance. From the design and commissioning phase on through to board room level data needs, we can bring together value to all users in your operation.

The Industrial Internet of Things (IIoT) has rapidly transformed industries across the globe, ushering in an era of unprecedented connectivity, automation, and data-driven decision-making. IIoT has opened up new avenues for optimization, efficiency, and safety in various sectors by interconnecting industrial devices, machines, sensors, and systems.

Industry 4.0 integrates advanced technologies into industrial processes, including IoT, big data, artificial intelligence, and automation. The goal is to create "smart factories" that are highly efficient, flexible, and interconnected.

In the context of IoT, Industry 4.0 leverages IIoT devices to connect machines, equipment, and sensors, enabling real-time data collection and communication. These devices provide valuable insights into manufacturing processes, supply chains, and equipment performance.

For example, Amazon leverages IoT and digital twins in its supply chain management. IoT sensors in warehouses monitor inventory and smart packaging tracks product conditions during transit. Predictive maintenance is used for delivery vehicles and drones. Digital twins optimize processes, reducing operational risks. This has led to faster deliveries, enhanced customer satisfaction, and reduced costs for Amazon. The global IoT in logistics market was valued at USD 30.5 billion in 2020 and is expected to reach USD 80.5 billion by 2026.

They measure and monitor changes in temperature within industrial processes, machinery, or environmental conditions. They are commonly used in manufacturing, storage facilities, and HVAC systems to maintain optimal temperature levels.

Pressure sensors gauge variations in pressure levels, ensuring that industrial systems operate within safe and efficient ranges. They find applications in hydraulic, pneumatic, and various industrial processes.

Proximity sensors detect the presence or absence of objects within their vicinity. They are utilized in automated manufacturing lines and robotics to enable precise positioning and prevent collisions.



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Air quality monitors assess the air's pollutants and particulate matter concentration. They are commonly used in manufacturing facilities, laboratories, and industrial settings to maintain a safe and healthy atmosphere for workers.

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