IoT Sensors – Developing Safer, Smarter & Reliable Solutions for Businesses

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There was a time when people thought that only computers and mobile phones could connect and exchange information through the internet. But that thinking has changed after the invention of intelligent gadgets that could interact and work using the internet. That is what we call the *Internet of Things (IoT)*.

Now, several gadgets around us are connected to the internet and provide us with comfort, and we don't even realize it. For example, almost every household has Alexa or Google home to command smart fans, bulbs, doors, sensors, and more to suit users' needs. These devices work on IoT.

The same thing goes for business. Although IoT devices make our lives smarter and comfortable, they also open up new, more innovative, and safer ideas to develop our business. Today's article will discuss IoT sensors developing safer, smarter, and reliable business solutions.

List of IoT Sensors Used for Innovative Business Solutions

- ## IoT Pressure Sensors

Pressure sensors are crucial for any business that depends on production and supply. Unfortunately, we often come across several news articles describing how a pressure sensor failure led to a big industrial explosion. These things lead to loss of life and property. You can prevent this kind of hazard using IoT pressure sensors.

Using a smart pressure sensor, you can detect minute things like atmospheric pressure changes, minor pressure changes in pipes, pressure changes in a tank, and more. Then, the computer will adjust the pressure distribution to keep the working area safe from any disaster using this data.

- ## IoT Temperature Sensors

The best example of a business that utilizes IoT proximity sensors would be Tesla. They use these smart proximity sensors to make driverless cars safe for busy roads. Not only that but these smart proximity sensors are also used in other places like mall doors.

- ## IoT Accelerometers

Accelerometers are a type of sensor that can detect changes to gravity to determine the actual speed of a moving object. These sensors are generally used in cars and other moving vehicles to measure the speed the driver is driving the vehicle.

In addition, businesses can use these sensors in automating cars as Tesla did. Moreover, the IoT accelerometers can also help companies that sell security services or products. For example, you can install an accelerometer in an object that is supposed to stay still to trigger the alarm mechanism.

- ## IoT Air Sensors

We live in a world where the air we breathe is now toxic to some extent. The reason behind this is pollution. This poisonous air is hazardous to our health, and thus companies and governments do their best to eliminate the impure air.

But how can we differentiate between air with toxic elements and pure air? We can always rely upon our senses like eyes and nose to detect toxicity in the air. That is why we rely upon air sensors. Smart air sensors can communicate with each other and other devices to provide us with accurate air quality data in a region.

Using this data, companies and the government can make the lives of their citizens better. Moreover, we can use this sensor in a factory-centric business that emits smoke. Finally, we can determine whether the smoke we are emitting is good for nature or not using the air sensors.

- ## IoT Infrared Sensors

Infrared Sensors are able to read the environment by using infrared signatures. These sensors either emit or read the infrared in the surroundings to assist us in understanding the surroundings of unseen areas. For example, doctors use infrared sensors to help themselves in surgery by monitoring blood flow and blood pressure.

You can also use these smart sensors to detect minute cracks in long pipes that you cannot do manually. Moreover, many historians and art galleries use infrared sensors to detect whether a presented art is fake or real.

- ## IoT Optical Sensors

The primary use of an optical sensor is to convert the ray of light into an electrical signal. This type of technology is helping humankind to build future technologies like self-driving cars.

These cars use smart IoT optical sensors to aggregate information from signboards on the roadside in the form of electrical signals and transmit it to the car's central computer to help it navigate. Furthermore, smart optical sensors are also used by doctors to monitor the breathing patterns and heart rate of patients.

- ## IoT Gyroscopes

A gyroscope is a device that enables us to measure the angular rate or velocity. In simpler words, it helps us maintain a position even if the surroundings are spinning in an abnormal motion. This technology is advantageous in making aircraft, especially fighter aircraft, that take sharp turns in mid-air. Furthermore, smart gyroscopes are also used in-game controllers to provide us with an amazing real-time gaming experience. Game-providing companies can make a huge profit from this type of IoT sensor.

Conclusion

IoT sensors are revolutionary and leading us towards the future of technology. Businesses can use IoT sensors to develop safer, smarter, and more reliable solutions to improve productivity. Airtel IoT offers end-to-end solutions to ensure that your business runs smoothly and safer. Are you future-ready?

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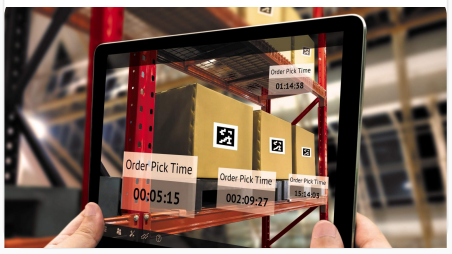

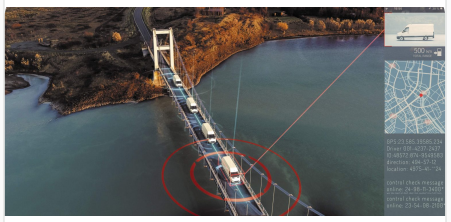

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