Industrial Wearables

Overview

Wearable products comprise smart devices equipped with microchips, sensors, and wireless communication capabilities. These devices collect data, track activities, and provide customized experiences to user's needs and desires. The adoption of wearables in the workplace will occur both in corporate enterprise environments and in industrial settings such as warehouses, manufacturing shop floors, and field maintenance sites.

The growing popularity of mobile networks has been one of the most important factors in the development of wearable technology. Bluetooth headsets, smartwatches, and web-enabled glasses allow people to access data hands-free from Wi-Fi networks.

An entire industry devoted to the development of applications that can work with wearable technologies has recently developed, with services being sold or given for free to individuals willing to download applications. These applications cover a broad spectrum: from those focused on health and exercise to sports and maps.

Applicable Industries

- Aerospace
- Agriculture, Forestry & Fishing
- Automotive


Chemicals


Electronics & Embedded Devices


Construction


Consumer Goods


Food & Beverage


Furniture & Home Appliances


Healthcare Services


Heavy Vehicle


Equipment & Machinery


Medical Devices & Equipment


Mining


Oil & Gas


Paper & Pulp


Pharmaceuticals


Plastics & Rubber


Rail & Metro


Renewable Energy


Shipping

Smart Grid

Telecommunications

Applicable Functions

Environmental Health & Safety

Facility Maintenance

Logistics

Maintenance

Production - Manufacturing

Quality Assurance

Market Size

Estimate A

The global wearable technology market is expected to grow from USD 15.74 Billion in 2015 to reach USD 51.60 Billion by 2022.

Source: Markets and Markets

Estimate B

The global wearable sensors market is to reach a size of USD 1,630.3 million by 2020.

Source: P&S Market Research

User Viewpoint

Business Value

How does this use case impact an organization’s performance?

Wearable technologies present a significant opportunity for businesses, both in terms of new markets and data collection. Retailers can ping wearable devices to determine which sections of a store a consumer visits advertisers can target consumers based on location and the nature of the application associated with the device, and information uploaded to a website dedicated to the device can provide marketers with information specific to an individual consumer.

Real-time data and real-time insight fed to an operator who needs it can significantly impact efficiency and safety. Other benefits include ease of installation, cost-effectiveness, and the ability to create a network of sensors

System Capabilities & Requirements

What are the typical capabilities in this use case?

Smart gas sensors can be integrated into portable electronic devices such as smartphones and tablets, which helps enhance overall performance under harsh external conditions.

Industrial wearables can be used in remote or hard-to-reach locations.

Technology Viewpoint

Sensors

What sensors are typically used to provide data into the IoT system, and which factors define their deployment?

Gas sensors

IoT ONE Use Case

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