



PERCĒV SYSTEM OVERVIEW

Intelligent Decisions Driven by Intelligent Sensors™

Civionics Percēv™ Systems have been developed for asset managers who need to make operational decisions based on real-time information. Our solution comprises integrated systems of wireless sensors, cloud-based storage, and advanced analytics that deliver actionable information to improve business processes. Our technology has been proven in some of the world's most challenging operating environments—from long-span bridges to US naval warships. Percēv Systems are being deployed in industries for which equipment down-time is crippling, ranging from heavy manufacturing to off-shore oil drilling.

Our products and deep technical expertise allow us to easily and cost-effectively extend our standard platform for fully customized solutions to meet our customers' specific needs.

Civionics' intelligent wireless sensor networks are ideally suited for applications that demand real-time, high-impact actionable information for improved decision-making. Sensor nodes gather data and extract targeted information, which is then uploaded to the cloud and is made available to decision makers via real-time web and smartphone interfaces.

Percēv Nodes

Percēv Nodes represent the wireless data acquisition and processing core of the Percēv System. Multiple configurations are available, from compact to environmentally hardened. Unlike competitive products, which typically require one wireless node per sensing transducer, each Percēv Node can manage incoming data from up to 20 transducers.

Percēv Nodes are typically battery powered, with battery lifetimes of up to a decade. Percēv Nodes communicate with each other via 802.15.4 and with the cloud via WiFi or 3G Interfaces.



Percēv Cloudgate

Percēv CloudGate is a secure communication channel between Percēv Nodes and Civionics' cloud-based resources.

The Percēv System inherently minimizes the amount of data transmitted to prevent burdening of customers' networks and maximize battery life. Civionics also provides an API that allows customers to easily access their data should they wish to build their own analysis tools.

Percēv CloudGate can communicate with a variety of systems, thereby enabling closed-loop control capabilities.



Percēv Decision Workshop

Percēv Decision Workshop is a suite of analytics packages and data visualization tools. Available packages include equipment health monitoring, building occupancy assessment, facility climate analysis, and structural health monitoring.

A Percēv System core value is its ability to provide actionable information that enables quick and confident responses to real-time situations. Currently available is a highly configurable alerting capability; with sophisticated prognostic functionality becoming available shortly.



Civionics' technologies, which were originally developed at the University of Michigan, have been thoroughly tested in demanding, real-world situations, including bridges in Korea, wind farms in Germany, and US Naval warships.

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