



Instrument Area Network



Our Wireless Offerings improve operational efficiencies through digitized information using innovative solutions which are Cost-Effective, Easy to Use, Safe, Secure and Sustainable

New approach to wireless

Modern Plant Managers and other operations professionals save time and money with a robust wireless architecture. This cost-effective wireless infrastructure provides the information required to make the right decisions. One-third the cost of traditional wireless offerings.

Instrument Area Network from Schneider Electric is an ultra-reliable wireless sensor network that gives you actionable insight into your plant. Built on leading edge wireless technology utilizing Bluetooth Low Energy.

Robust and Reliable Designed by Experience

- Most Economical Industrial Wireless Solution
- Easy to Use – 2 Clicks Away
- Industry Leading Battery Life – up to 20 years
- High Accuracy up to 0.015% reading – 100% of range

Extend autonomy

Instrument Area Network is a unique IIoT solution that maximizes battery life and optimizes wireless mesh network data flow. The network of transmitters is enabled with ultra-low-power BLE (Bluetooth Low Energy) radios that provide increased reach into challenging areas reducing power requirements, extending battery life and reliability.

Increase flexibility

Instrument Area Network increases free path communications (line of sight not required) and installation flexibility by communicating with installed sensors via a hybrid network of WirelessHART on the mesh and BLE in the local transmitter locations.

Eliminate blind spots

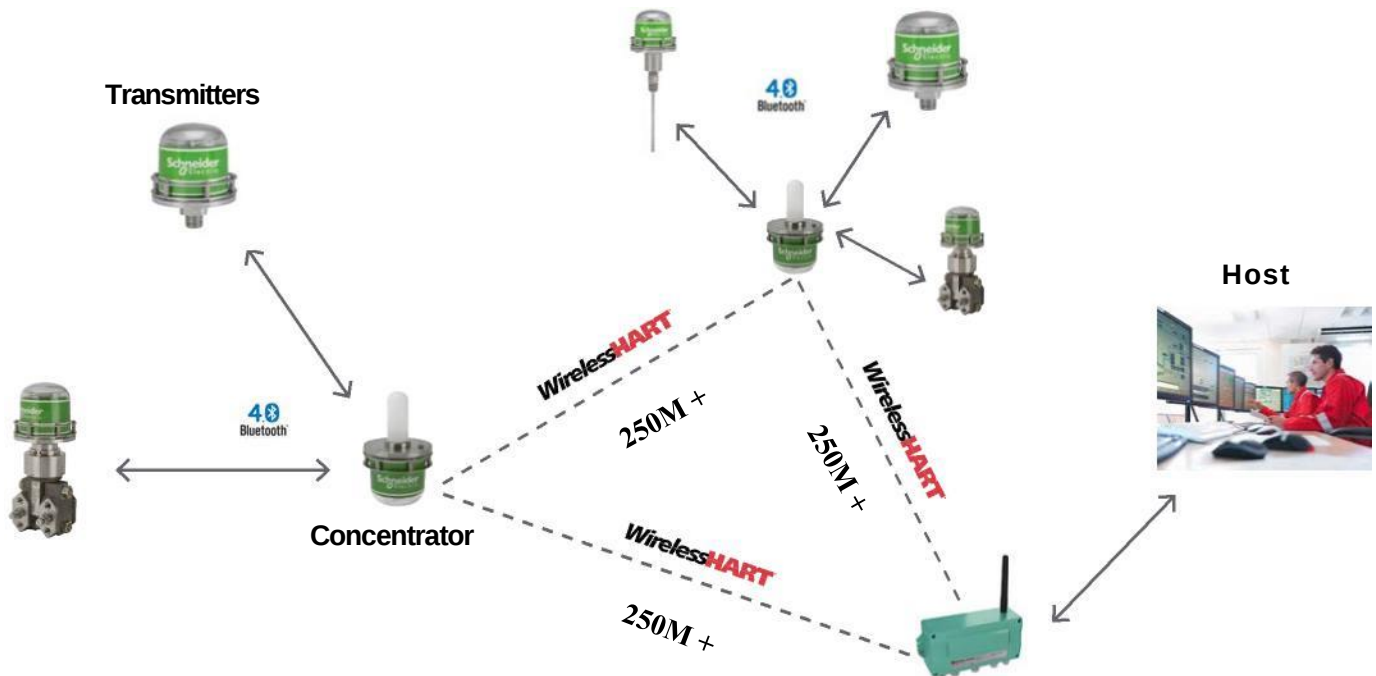
Unlike other mesh networking solutions, the Instrument Area Network architecture optimizes radio paths, ensuring deterministic data flow through all network nodes.

You gain:

- Access to data points that were previously too costly to consider
- Quick insight into asset health for more timely response and scheduled maintenance
- Substantial cost savings by implementing a preventative wireless monitoring program

Gain efficiency, reliability and cost effectiveness with Schneider Electric's Instrument Area Network.

Hybrid architecture using WirelessHART mesh networking coupled with ultra-efficient BLE Instrument Area Networks



All wireless distances are based on the "Friis Space Model" using the Link Margin (LKM) referenced in PSS 2A-1B5 A.

Instrument Area Network – Transmitters

Absolute, Gauge, Differential Pressure and Temperature versions

Easy one-touch installation/quick sync with Instrument Area Network Concentrator

LED Beacon for visual confirmation of network setup

Compact enclosures with integrated antenna, power and sensor

Configuration through Instrument Area Network Concentrator, WirelessHART Gateway or Host System

Bluetooth Low Energy (BLE) 4.0 with 128-bit AES encryption

Intrinsically safe for use in hazardous Zone 0 applications

-40 to +80°C (-40 to 176°F) ambient temperature

No battery replacement (up to 20 years battery life)

Easy physical mounting to process fitting

Instrument Area Network – Concentrators

Hybrid Concentrator with BLE, WirelessHART and WiFi radios

Capable of supporting up to 8 transmitters

Easy one-touch installation/quick sync with Instrument Area Network Transmitters

LED Beacon for visual confirmation of network setup

Configuration through WiFi or Gateway or Host System

128 Bit AES encryption BLE and WirelessHART radios

Certified Increase Safety for use in Zone 2 applications

-40 to +80°C (-40 to 176°F) ambient temperature

No battery replacement (5 years+ battery life)

Easy physical mounting

Patent Pending

Life Is On

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