

Introducing Wireless HART

The new WirelessHART range from P+F allows you to convert virtually any 2-wire transmitter into a battery-powered wireless device.

Have you ever wanted to build a system without dealing with cable racks and conduits?

Have you wanted to skip all of that monotonous continuity checking?

Or have you ever wanted to add a transmitter to your system but found it too difficult, unsafe or expensive to run the cables?



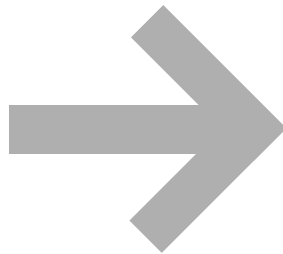
The WirelessHART standard allows you to connect your field transmitters without having to run a single length of cable. Instead, they use a secure wireless network to connect all of your field devices to a WirelessHART Gateway, which allows you to access all of your measurements using MODBUS, EtherNet/IP* or Profibus* communication.

** MODBUS Available Now - EtherNet/IP Available Late 2013 - Profibus In Development*

The New Way To Connect A Sensor To Your System



Use a Wired PC or HART Communicator to set a Security Key and Tag Number for your Adaptor



Attach the Adaptor to a Loop-Powered Field Device



Range and Quantity

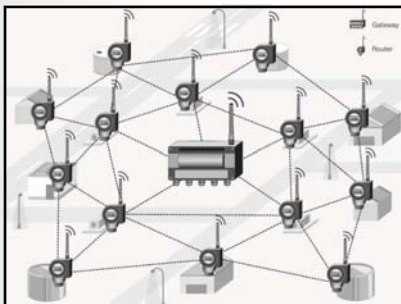
Wireless transmitters have a clear-air range of 200m (between any two units) and over shorter distances can deal well with obstructions such as brick walls.

In real environments (given the noise caused by existing wireless equipment) up to 50 transmitters can be connected to a single WirelessHART gateway.



Secure Communication

All of your Wireless communication is encrypted to make it secure against eavesdropping or hacking attempts. All devices must be loaded with the correct passphrase to allow them to access your network, ensuring that only transmitters that are permitted to join are part of your network.



Mesh Networking

Each device in a WirelessHART network is also a repeater, so that your network reach grows as your plant does. Should a device happen to fail or lose reception, a new route is created to get your data to and from the Gateway.



Compatibility

Like the HART protocol that came before it, WirelessHART is an open standard.

This means that any manufacturer can produce a device that is compatible with your WirelessHART gateway - you aren't tied to any one model or maker for your wireless equipment.



Data Rates, Power Options & Battery Life

WirelessHART is designed for monitoring rather than control loops - updates are not instant, particularly on battery-powered transmitters where fast updates can drastically limit your battery life*

If faster updates are required, you can run 24VDC power to your transmitters to take care of their power needs.

* A Yokogawa EJX110A updating every 30 seconds would have an estimated bat. life of 191 days. If updating every 5 minutes, it has an estimated life of well over three years.

Call us if you would like to learn more about WirelessHART