Honeywell

OneWireless Starter Kit

Get started quickly on the road to a more efficient and safer plant with Honeywell's universal, simple, and efficient OneWireless™ network. Honeywell's OneWireless Starter Kit provides you with an introduction to Honeywell's OneWireless solutions. Within 20 minutes, you can set up a multi-functional wireless plant network that can grow to include additional devices and 802.11 handheld devices, such as Honeywell's IntelaTrac PKS and Mobile Station.

Honeywell's OneWireless multi-functional wireless mesh network supports wireless-enabled applications within a single wireless network to optimize plant productivity and reliability, improve safety and security, and ensure regulatory compliance. Supporting both Honeywell's XYR™ wireless transmitters, and offering an open yet secure backbone to 802.11-enabled equipment , this network delivers a global solution with robust security, predictable power management and multi-speed monitoring. This is the only wireless network you'll need for your industrial plant.

This kit includes two Honeywell XYR 6000 wireless transmitters, enabling automated monitoring in areas where traditional hard-wired transmitters are too costly, difficult or time-consuming to implement. If you would like to add additional sensors to the transmitters included in the kit, the XYR 6000 transmitter family includes devices for accurately monitoring gauge pressure, absolute pressure, differential pressure, temperature, and corrosion. The line also includes an analog input interface for adding wireless capabilities to 4-20 ma devices. The devices wirelessly transmit their measurements to a gateway or to multiple communication nodes, called Multinodes. The starter kit includes one multinode/gateway to wirelessly communicate to the sensors forming a managed, secure and redundant wireless network. The multinode/gateway also interfaces with Honeywell's PC-based Wireless Server Software, which offers configuration capabilities and communications with your control system. The multinode/gateway and each associated mutlinode you may subsequently add is also an 802.11 b/g wireless access point providing flexible remote communications.

Honeywell's OneWireless network provides a universal, simple, and efficient network with these features:

- One strategic network that supports multiple uses (sensors and 802.11 Wi-Fi devices), providing one infrastructure for simple network management

- Scales from a few field instruments to thousands to get started now but still prepare for future

- Operates in noisy radio frequency environments for reliable communication that functions safely as required and when needed

- Provides predictable power management to ensure uptime and optimize maintenance

- End-to-end industrial security to protect plant information and ensure safety

- Open architecture and protocol integration to provide choices for standard and cost-effective solutions

- Backwards compatible to previous Honeywell solutions and forward migratable to protect your investment

Details

Network Architecture
• Integrated multi-functional 802.11 mesh network supporting handheld and field sensor devices, including XYR 5000 and XYR 6000 wireless transmitters, IntelaTrac PKS, Mobile Station, real-time location applications and other 3rd-party devices • Control ready with built-in redundancy and managed message routes

Network Security Management
End-to-end security: WPA2, AES-based, device authentication, FIPS 140-2 based encryption

Network Communications	
• Frequency hopping spread spectrum • Built-in sensor redundancy for assured communication • Integrated 802.11 high-speed, self-organizing mesh network • Class 1, Div 2 for general plant deployment • Full performance, flexible channel allocation for plant wireless governance • Up to 6 miles (10 km) multinode to multinode communication(with optional antennas); sensor to multinode designed for over 2,000 ft (.6 km)	• Built-in read-write messaging for configuration and priority alarms - optimized performance for all functionality • Radio receivers with high selectivity for co-existence • Protocol tolerant to missing packets with automatic repeat requests • Multi-speed monitoring – 1 second reporting with latency control and the ability to configure sensors on the same network at different rates

Network Protocols	
• 2.4 GHz-based for use in facilities worldwide	• Open protocol - connects to any system

Network Sizing

• Minimum: One sensor
• For control or high-speed sensing:
  –   Up to 1,000 sensors per network (@ 1 sec updates)
• For general purpose sensing:
  –   Up to 10,000 sensors per network (@ 10 sec updates)
  –   Up to 30,000 sensors per network (@ 30 sec updates)
• For other applications: 54Mbps max mesh link speed (9Mbps effective throughput)

Sensor Power Management
Self-contained and predictable power management designed for 10-year sensor battery life (rain or shine)

Kit Contains
One (1) XYR 6000 HLAI Transmitter One (1) XYR 6000 Temperature Transmitter (STTW400) One (1) Multinode/Gateway (WNMN) with Integral Antennas One (1) 120/240 VAC to 24 VDC 30 W One (1) Authentication device One (1) Serial IR Port One (1) OneWireless Server Tools Software One (1) TCP-IP Serial Converter

OneWireless and XYR are trademarks and Experion is
a registered trademark of Honeywell International Inc.
IntelaTrac is a registered trademark of SAT
Corporation.

More Information

To learn more about Honeywell's wireless

solutions, visit www.honeywell.com/ps/wireless

or contact your Honeywell account manager.

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