

## XYR 6000 Wireless Transmitter



Honeywell OneWireless™ XYR 6000 wireless transmitters break down the barriers to monitoring temperature, pressure, valve position, and other process variables in areas where traditional hard-wired transmitters are too costly, difficult or time consuming to install. These instruments are designed for industrial applications with no access to power, that are remote or difficult to reach, or where manual readings are typically taken. XYR 6000 transmitters are compliant to the ISA100.11a wireless standard, and communicate on the 2.4 GHz ISM band using a IEEE 802.15.4 radio.

The XYR 6000 transmitter family includes instruments for accurately measuring (sensing, processing and wirelessly transmitting) temperature, gauge pressure, absolute pressure, differential pressure, valve position, analog signals, digital inputs and digital outputs.

The instruments wirelessly transmit to each other, to fixed routing devices, or to a gateway forming a managed and secure mesh network. The Honeywell OneWireless™ network is a single wireless mesh network capable of simultaneously supporting ISA100.11a field instruments (such as XYR 6000), Wi-Fi and Ethernet/IP based devices. The network is composed of four interconnected elements: Wireless Device Manager (WDM), Multinodes, Field Device Access Points (FDAP) and field devices.

The XYR 6000 transmitters integrate seamlessly into the Honeywell OneWireless™ network and are compliant with the ISA 100.11a industrial wireless open protocol standard.

Deploying the XYR 6000 wireless transmitters can typically save 50% over wired transmitters. Avoiding the need to run power and communications cables can decrease material and labor costs associated with the installation. This also accelerates the installation, further improving project costs and the overall implementation schedule.

### Improve Product Quality

With XYR 6000 transmitters, you can easily increase the number, frequency and types of measurements. Additionally, you can improve accuracy and consistency by replacing manual readings with automated online data collection. Online communication with your control system also helps ensure operator responsiveness and precise time tracking of information for use in troubleshooting potential process problems or developed alarm conditions.



## Ensure High Uptime

With more frequent measurements and early detection of asset problems, you can reduce or even prevent incidents.

## Reduce Maintenance and Operational Cost

Each XYR 6000 transmitter uses two commonly available “D” size lithium batteries, which enables a savings of up to \$700 over the life of the transmitter over other wireless transmitters having a battery life of up to 10 years.

The transmitters allow monitoring of a range of assets to support proactive, predictive maintenance. XYR 6000 transmitters help identify potential problems that can be costly in terms of excess use of energy and raw materials. Once XYR 6000 instruments are in place, you also can redirect personnel who previously recorded data manually to more productive tasks.

## Improve Safety and Meet Regulatory Requirements

Many monitoring points are located in hazardous areas. Installing a wireless transmitter can quickly reduce safety risks by eliminating the need for employees to enter and manually monitor those hazardous area measurement points.

XYR 6000 can help meet regulatory requirements by recording changes and sending data to the control system for date and time stamping. The instruments allow flexible monitoring of process variables throughout critical phases of your process. In fact, the transmitters can even physically move with the process.

XYR 6000 transmitters also help improve water treatment processes and reduce environmental impact by enabling online measurement of additional remote variables, such as waste pond level, which are often measured only locally.

## Enhance Flexibility

Because XYR 6000 transmitters are easy and affordable to install, you can add or change measurements as needed. This flexibility supports process improvement and development of new and better products in pilot plant applications.

Wireless technology enhances workforce productivity and flexibility by providing access to plant data and information throughout the site. Operators, technicians and engineers are no longer limited to data and information availability only from the control room.

## Overcome Measurement Hurdles

### Cost

Going wireless means faster, easier installation and wire savings of \$10 to \$40 per foot.

### Time

Simplified installation leads to faster startups and accelerated profits. Local and remote device configurations provide extra flexibility.

### Range

The instruments transmit measurements up to 305 m (1,000 ft) LOS\* with integral 2 dBi antenna.

*\* Line Of Sight. Actual range may vary depending upon plant topography.*

### PV Publication Rate

1, 5, 10, 30 or 60 sec. configurable

### Accuracy

Gauge pressure, differential pressure, temperature and analog input devices offer exceptional accuracy of  $\pm 0.1\%$  of full scale readings at reference conditions.

**Reliability:** XYR 6000 transmitters feature a long battery life (up to 10 years) and a low-battery alarm.

Self-checking software and hardware diagnostics continuously monitor device operation to identify and report parameters that are out of specification.

**Ruggedness:** Rated for industrial use, XYR 6000 transmitters are ideal for hazardous, remote or hard-to-access locations.

## XYR 6000 Transmitter Models

### Differential Pressure (DP)

- STDW120 / STDW924 - 0 to 400 in H<sub>2</sub>O
- STDW125 - 0 to 600 in H<sub>2</sub>O
- STDW130 / STDW930 - 0 to 100 psi
- STDW170 / STDW974 - 0 to 3,000 psi

### Gauge Pressure (GP)

- STGW944 (dual head) - 0 to 500 psi
- STGW974 (dual head) - 0 to 3,000 psi
- STGW14L / STGW94L (in-line) - 0 to 500 psig
- STGW17L / STGW97L (in-line) - 0 to 3,000 psig

- STGW18L / STGW98L (in-line) - 0 to 6,000 psig
- STGW19L / STGW99L (in-line) - 0 to 10,000 psig

#### Absolute Pressure (AP)

- STAW14L / STAW94L (in-line) - 0 to 500 psia

#### Flange Mount

- STFW128 / STDW928 - 0 to 400 in H<sub>2</sub>O
- STFW132 / STDW932 - 0 to 100 psi
- STFW12F / STDW92F - 0 to 400 in H<sub>2</sub>O (pseudo)
- STFW13F / STDW93F - 0 to 100 psi (pseudo)
- STFW14F - 0 to 600 in H<sub>2</sub>O (pseudo)

#### Remote Seals – DP, GP, AP models

- STRW12D - 0 to 400 in H<sub>2</sub>O
- STRW13D - 0 to 100 psi
- STRW14G / STRW94G - 0 to 500 psi
- STRW14A - 0 to 500 psia
- STRW17G - 0 to 3000 psi
- STRW93D - 0 to 2700 in H<sub>2</sub>O

#### More Information

For more information on XYR 6000 Transmitter visit [www.honeywellprocess.com](http://www.honeywellprocess.com) or contact your Honeywell account manager or field service leader.

#### Automation & Control Solutions

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Shanghai City Centre, 100 Junyi Road  
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[www.honeywellprocess.com](http://www.honeywellprocess.com)

#### Temperature/DI

- STTW401 - 3 T/C max, 2 RTD max, 3 DI max

#### Universal I/O

- STUW700 (3 input) - (1-3)HLAI, (1-2)T/C, (1-2)DI
- STUW701 (2 input+1 DO) - (1-2)HLAI, T/C, DI + DO

Note: HLAI = 0/4-20 mA

#### Analog Input

- STIW600 - 0/4-20 mA or 0/1-5 V

#### Valve Position Sensor

- WCX1 - linear distance, valve position