

Wireless Transmitter Series XYR 6000 Series 100 Absolute Pressure Specifications Model STAW14L 0 to 500 psia 0 to 35 barA

34-XY-03-45 August 2012



Introduction

Building upon the tremendously successful ST 3000 series transmitter line; Honeywell brings simple, safe, and secure wireless technology to its measurement portfolio in the XYR 6000 Series Wireless Transmitters.

The Series 100 XYR 6000 Wireless absolute pressure transmitter offers improved accuracy and performance for those critical applications that require it.

The XYR 6000 series measurements are part of the Honeywell OneWireless system and are ISA100.11a Compliant.

Measurement and information without wires! The XYR 6000 wireless transmitter series enable customers to obtain data and create information from remote and hazardous measurement locations without the need to run wires, where running wire is cost prohibitive and/or the measurement is in a hazardous location. Without wires, transmitters can be installed and operational in minutes, quickly providing information back to your system.

XYR 6000 wireless transmitters send information to an ISA100.11a compliant MESH infrastructure. Wireless Data Managers (WDM) provide the path to bring that information into Experion PKS or any other control system wirelessly via OPC client or Modbus-TCP.

Transmitter power is supplied by two “D” size lithium batteries with an expected lifetime of up to ten years. Transmitter range with the integral antenna is 1,000’ (305 m) under ideal conditions. The STAW Series Absolute Pressure transmitters can be used in applications in which high accuracy in the vacuum range of pressure is needed. Typical applications include low-pressure measurement in vacuum distillation columns, where energy savings are directly proportional to the vacuum in the column.



Figure 1 — XYR6000 Absolute Pressure Transmitter

Implement the value of wireless technology today:

- Measure remote access points simply, safe and securely
- Obtain and utilize previously inaccessible information due to high wiring cost or hazardous locations.
- Easily meet Regulatory Requirements
- Improve process efficiency
- Enhance Flexibility to monitor applications:
 - that have no access to power
 - that are remote or difficult to reach
 - that may require frequent reconfiguration
 - where manual readings have been required previously.

Specifications

Operating Conditions

| Parameter | Reference Condition | | Rated Condition | | Operative Limits | | Transportation and Storage | |
|--|---|------|-----------------|------------|------------------|------------|----------------------------|------------|
| | °C | °F | °C | °F | °C | °F | °C | °F |
| Ambient Temperature** | 25±1 | 77±2 | -40 to 85 | -40 to 185 | -40 to 85* | -40 to 185 | -40 to 85 | -40 to 185 |
| Ambient Temperature LCD Display visible range | 25±1 | 77±2 | -40 to 80 | -40 to 176 | | | | |
| Meter Body Temperature STAW14L*** | 25±1 | 77±2 | -40 to 80 | -40 to 176 | -40 to 80 | -40 to 176 | -40 to 85 | -40 to 185 |
| Humidity % RH | 10 to 55 | | 0 to 100 | | 0 to 100 | | 0 to 100 | |
| Vacuum Region - Minimum Pressure STAW14L | Operate within specifications above 25 mmHgA (33 mbarA). Short term exposure (2 hours at 70°C/158°F) to full vacuum will not result in damage. | | | | | | | |
| Maximum Allowable Working Pressure (MAWP) (XYR6000 products are rated to Maximum Allowable Working Pressure) | STA14L = 500 psia, 35 barA | | | | | | | |
| Vibration | Maximum of 4g over 15 to 200Hz. | | | | | | | |
| Shock | Maximum of 40g. | | | | | | | |
| Power | Battery powered 3.6 V Lithium thionyl chloride (LiSOCl ₂) batteries non rechargeable, size D 24 Vdc Wired Power (option) - For I.S. Application: 21 V to 25 Vdc Operated with MTL7728P+ barrier (252 Ohms Max. end to end resistance), Max input current 26mA. For Non I.S. application: 11 V to 30 Vdc Input range, Max input current 100mA. | | | | | | | |

* 24V power option rated 80°C (176°F)

** The Ambient Limits shown are for Ordinary Non-Hazardous locations only. Refer to the appropriate Control Drawing, FM/CSA, ATEX, or IECEx for the Ambient Limits when installed in Hazardous Locations.

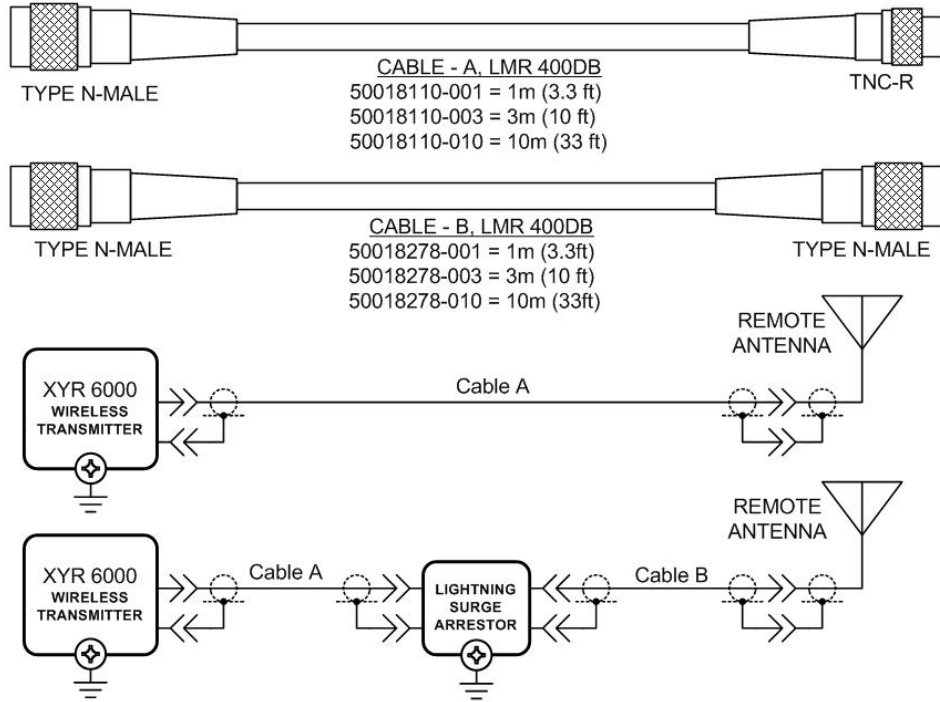
***STAW14L meter body maximum temperature specification is lower than maximum ambient specification

Wireless Specifications

| Parameter | Description |
|---|---|
| Wireless Communication | <p>2,400 to 2,483.5 MHz (2.4 GHz) Industrial, Scientific and Medical (ISM) band</p> <p>DSSS Selection – Discrete Sequential Spread Spectrum per FCC 15.247 / IEEE 802.15.4–2006</p> <p>ISA100.11a Compliant (2.4 GHz Direct Sequence Spread Spectrum 802.15.4 DSSS-FH)</p> <p>Every data packet transmitted in either direction is verified (CRC check) and acknowledged by the receiving device.</p> <p>USA – FCC Certified</p> <p>Canada – IC Certified</p> <p>European Union – RTTE/ETSI Conformity</p> <p>Japan – Ministry of Internal Affairs and Communications Certified</p> |
| ISA100.11a RF Transmitter Power (Optional) | <p>NA Selection – 125 mW (20.9 dBm) maximum transmit power not including antenna per FCC/IC, or 400 mW (26.0 dBm) maximum EIRP including antenna for USA and Canadian locations.</p> <p>EU Selection – 10 mW (10.0 dBm) maximum EIRP including antenna per RTTE/ETSI for EU locations.</p> |
| DSSS RF Transmitter Power (Optional) | <p>NA Selection – 125 mW (20.9 dBm) maximum transmit power not including antenna per FCC/IC, or 400 mW (26.0 dBm) maximum EIRP including antenna for USA and Canadian locations.</p> <p>EU Selection – 10 mW (10.0 dBm) maximum EIRP including antenna per RTTE/ETSI for EU locations.</p> <p>JP Selection – 12.14 dBm/MHz [32mW (15.14 dbm)] maximum EIRP including antenna for Japanese locations.</p> |
| Data | <p>PV Publish Cycle Time: Configurable as 1, 5, 10, 30 or 60 seconds</p> <p>Rate: 250 Kbps</p> |
| Antennas | <p>Integral – 2 dBi omnidirectional monopole</p> <p>Integral – 4 dBi omnidirectional monopole</p> <p>Remote – 8 dBi omnidirectional monopole with up to 20 m cable and lightning surge arrester.</p> <p>Remote – 14 dBi directional parabolic with up to 20 m cable and lightning surge arrester.</p> |
| Signal Range | <p>Nominal 305 m (1,000 feet) between Field Transmitter and Infrastructure Unit (Multinode) or Gateway Unit when using 2 dBi Integral antenna with a clear line of sight.*</p> <p>Two XYR 6000 transmitters both having TX Power set to 16 dBm with a clear line of site nominal signal range is 150 m (490ft.)</p> |
| Routing vs Non-Routing | <p>Unit can be set as a Field Routing or non-Field Routing device; the number of routing devices is set by the system manager.</p> <p>Using the device as a routing device will impact battery life, the more messages routed through a device, the greater the impact on battery life.</p> |

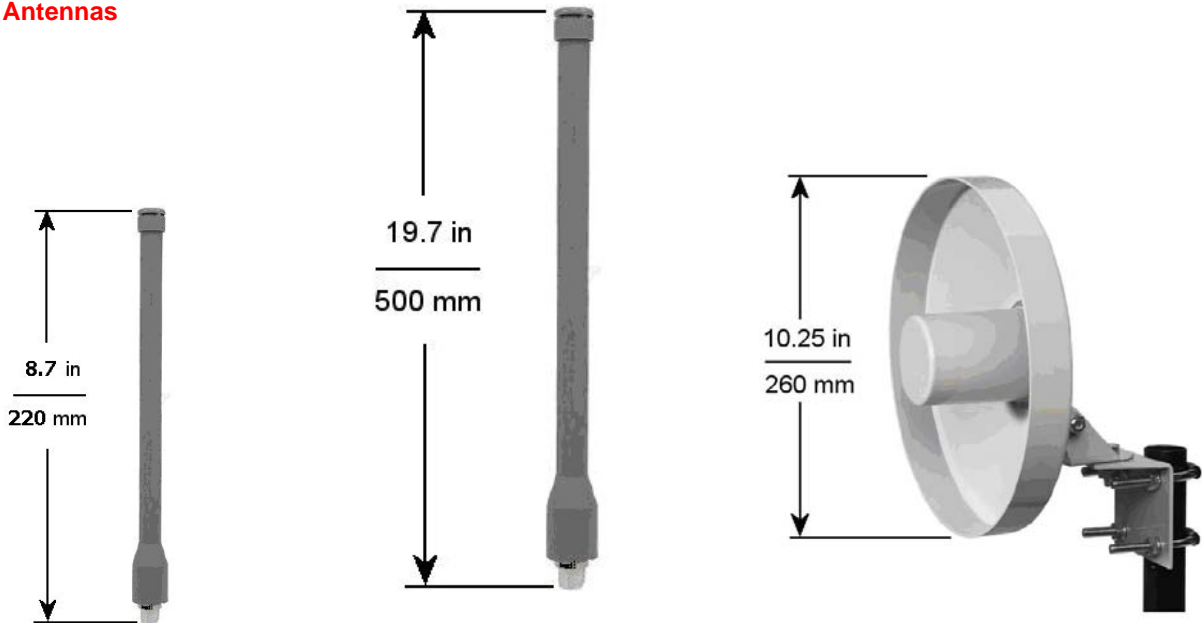
* Actual range will vary depending on antennas, cables and site topography.

Remote antenna cables



| CABLE PARAMETERS | | | LIGHTNING SURGE ARRESTOR PARAMETERS |
|-------------------|-------------|------------|--|
| CABLE A, B LENGTH | CAPACITANCE | INDUCTANCE | |
| 1 m | 78.4 pF | 0.2 μH | CAPACITANCE = 1 pF INDUCTANCE = 10 nH |
| 3 m | 235.2 pF | 0.6 μH | |
| 10 m | 784 pF | 2.0 μH | |

Remote Antennas



4 dBi Omnidirectional Antenna

8 dBi Omnidirectional Antenna

14 dBi Directional Antenna

Performance under Rated Conditions* - Model STAW14L (0 to 500 psia/35 barA)

| Parameter | Description |
|--|--|
| Upper Range Limit psia barA | 500 35 |
| Minimum Span psia barA | 5 0.35 |
| Zero Suppression | No limit except minimum span within 0 (zero) to +100% URL. |
| Accuracy (Reference – Includes combined effects of linearity, hysteresis, and repeatability) • Accuracy includes residual error after averaging successive readings. | ±0.0625% of calibrated span or upper range value (URV), whichever is greater, terminal based. For URV below reference point (20 psia), accuracy equals: $\pm \left[0.0125 + 0.05 \left(\frac{20 \text{ psia}}{\text{span/ psia}} \right) \right] \text{ or } \pm \left[0.0125 + 0.05 \left(\frac{1.4 \text{ barA}}{\text{span/ barA}} \right) \right] \text{ in \% of span}$ |
| Zero Temperature Effect per 28°C (50°F) | ±0.05% of span. For URV below reference point (75 psia), effect equals: $\pm 0.05 \left(\frac{75 \text{ psia}}{\text{span/ psia}} \right) \text{ or } \pm 0.05 \left(\frac{5.25 \text{ barA}}{\text{span/ barA}} \right) \text{ in \% of span}$ |
| Combined Zero and Span Temperature Effect per 28°C (50°F) | ±0.075% of span. For URV below reference point (75 psia), effect equals: $\pm 0.025 + 0.05 \left(\frac{75 \text{ psia}}{\text{span/ psia}} \right) \text{ or } \pm 0.025 + 0.05 \left(\frac{5.25 \text{ barA}}{\text{span/ barA}} \right) \text{ in \% of span}$ |

* Performance specifications are based on reference conditions of 25°C (77°F), 10 to 55% RH, and 316L Stainless Steel barrier diaphragm.

Physical Specifications

| Parameter | Description |
|---|--|
| Barrier Diaphragms Material | 316L SS, Hastelloy ^{®1} C-276 |
| Process Head Material | 316 SS |
| Mounting Bracket | Carbon Steel (zinc-plated) or Stainless Steel angle bracket or Carbon Steel flat bracket available. |
| Fill Fluid | Silicone DC [®] 200 oil or CTFE (Chlorotrifluoroethylene) |
| Electronic Housing | Epoxy-Polyester hybrid paint. Low Copper-Aluminum. Meets NEMA 4X (hosedown and corrosion resistant), IP 66/67 (hosedown and submersible to 1m) |
| Stainless Steel Housing (option) | 316 SS Electronics Housing - with M20 Conduit Connections 316 SS Housing with 1/2" NPT Conduit Connection 316 SS or Grade CF8M, the casting equivalent of 316 SS with M20 or 1/2" NPT Conduit Connection. If ordered with the Remote Antenna options, the antenna parts are not SS or Marine type cables; the integral antenna uses SS parts. |
| Process Connections | 1/2-inch F-NPT, 1/2 inch M-NPT, 9/16 High Pressure, DIN 19213 |
| Mounting | Can be mounted in virtually any position using the optional mounting bracket. Bracket is designed to mount on 2-inch (50 mm) vertical or horizontal pipe. See Figure 2 |
| Dimensions | See Figure 3 |
| Net Weight | 7 pounds (3.2 kg) ² |

¹ Hastelloy[®] C-276 or UNS N10276

² Add 8.0 pounds (3.6 kg) to any model equipped with the stainless steel housing option.
(Model Selection Guide Table IV selections A3 or SH)

NOTE: Pressure transmitters that are part of safety equipment for the protection of piping (systems) or vessel(s) from exceeding allowable pressure limits, (equipment with safety functions in accordance with Pressure Equipment Directive 97/23/EC article 1, 2.1.3), require separate examination.

Performance Under Rated Conditions – General

| Parameter | Description |
|---|--|
| Lightning Surge Arrester (Remote antenna only) | Frequency range: 0 – 3 GHz, 50 Ohms, VSWR = 1:1.3 Max, Insertion Loss = 0.4 dB Connectors Type N Female, Max, Gas Tube Element: 90 V ± 20%, Impulse Breakdown Voltage = 1,000 V ± 20%, Maximum Withstand Current = 5 KA. |
| CE Conformity | These transmitters are in conformity with the protection requirements of European Council Directives: 89/336/EEC, the EMC Directive and 1999/5/EC, the Telecommunications Directive per EN 300 328, V1.6.1 (2004-11), EN 300 489-1, V1.6.1 (2005-09), EN 300 489-3, V1.4.1 (2002-08) and EN 61326-1997+A1+A2, Electrical Equipment for Measurement, Control and Laboratory Use – EMC Requirements. |
| Hazardous Location Certifications | See the Model Selection Guide on page 8. |

Certifications

| MSG CODE | AGENCY | TYPE OF PROTECTION |
|---|------------------------------------|--|
| 2C | CSA 1903673 (USA and Canada) | Intrinsically Safe: Class I; Division 1; Groups A, B, C, D; Class II, Division 1, Groups E, F, G; Class III, Division 1; T4 Class I, Zone 0 Ex ia IIC T4 Class I, Zone 0 AEx ia IIC T4 |
| | | Nonincendive: Class I; Division 2; Groups A, B, C, D; Class II, Division 2, Groups F, G; Class III, Division 2, T4 Class I, Zone 2 Ex nA IIC, T4 Class I, Zone 2 AEx nA IIC, T4 |
| | | Explosion-Proof/ Flameproof: Class I, Division 1; Groups A, B, C, D; Class II, Division 1, Groups E, F, G; Class III, Division 1; T4 Class I, Zone 1 Ex d IIC T4 Class I, Zone 1 AEx d IIC, T4 |
| | | Ambient Temperature -40 °C to +85 °C : Battery -40 °C to +80 °C : DC Supply |
| | | Enclosure: Type 4X/ IP66 |
| | | 1C |
| Nonincendive: Class I; Division 2; Groups A, B, C, D; Class II, Division 2, Groups F, G; Class III, Division 2, T4 Class I, Zone 2 AEx nA IIC, T4 | | |
| Explosion-Proof/ Flameproof: Class I, Division 1; Groups A, B, C, D; Class II, Division 1, Groups E, F, G; Class III, Division 1; T4 Class I, Zone 1 AEx d IIC, T4 | | |
| Ambient Temperature -40 °C to +85 °C : Battery -40 °C to +80 °C : DC Supply | | |
| Enclosure: Type 4X/ IP66 | | |

| MSG CODE | AGENCY | TYPE OF PROTECTION |
|----------|--------------------------------------|---|
| 3C | ATEX- KEMA 08ATEX0062X | Intrinsically Safe: II 1 G Ex ia IIB T4 II 1 D Ex tD A20 IP66 T90 °C |
| | | Flameproof: II 2 G Ex d [ia] IIB T4 II 2 D Ex tD A21 IP66 T90 °C |
| | | Ambient Temperature -40 °C to +70 °C : Battery -40 °C to +80 °C : DC Supply |
| | | Enclosure: IP66 |
| C1 | IECEX- CSA 09.0001X | Intrinsically Safe: Ex ia IIB T4 Ex tD A20 IP66 T90 °C |
| | | Flameproof: Ex d [ia] IIB T4 Ex tD A21 IP66 T90 °C |
| | | Nonincendive: Ex nA [nL] IIC T4 Ex tD A22 IP66 T90 °C |
| | | Ambient Temperature -40 °C to +70 °C (Ex ia, Ex d) -40 °C to +84 °C (Ex nA) : Battery -40 °C to +80 °C : DC Supply |
| ZC | SAEx S/09-036X (South Africa) | Intrinsically Safe: Ex ia IIB T4 Ex tD A20 IP66 T90 °C |
| | | Flameproof: Ex d [ia] IIB T4 Ex tD A21 IP66 T90 °C |
| | | Nonincendive: Ex nA [nL] IIC T4 Ex tD A22 IP66 T90 °C |
| | | Ambient Temperature -40 °C to +70 °C (Ex ia, Ex d) -40 °C to +84 °C (Ex nA) : Battery -40 °C to +80 °C : DC Supply |
| 6C | INMETRO NCC 11.0331 X (BRAZIL) | Intrinsically Safe: Ex ia IIB T4 Ga |
| | | Flameproof: Ex d [ia] IIB T4 Ex tb IIIC T90 °C IP66 |
| | | Nonincendive: Ex nA [ic] IIC T4 Ex tc IIIC T90 °C IP66 |
| | | Ambient Temperature -40 °C to +70 °C (Ex ia, Ex d) -40 °C to +84 °C (Ex nA) : Battery -40 °C to +80 °C : DC Supply |
| | | Enclosure: IP66 |

Electrical Data

Battery

Two in series connected (D size) Lithium batteries, type TL 5930/s manufactured by Tadiran, type XL-205F manufactured by Zeno Energy or type PT-2300H manufactured by Eagle Picher. Additionally for ATEX and IECEx certifications, Lithium Battery SL-2780, manufactured by Tadiran, GmbH may be used.

DC Supply

For Ordinary Locations, Explosion-proof and Non Incendive:
16.0 V min to 28.0 V max, Current = 100 mA

For Intrinsically Safe:

A Barrier, MTL 728P+ or MTL 7728P+ mounted in a suitable enclosure, or in a non-hazardous location is needed, see Agency Certification drawings in Section 6.

Mounting

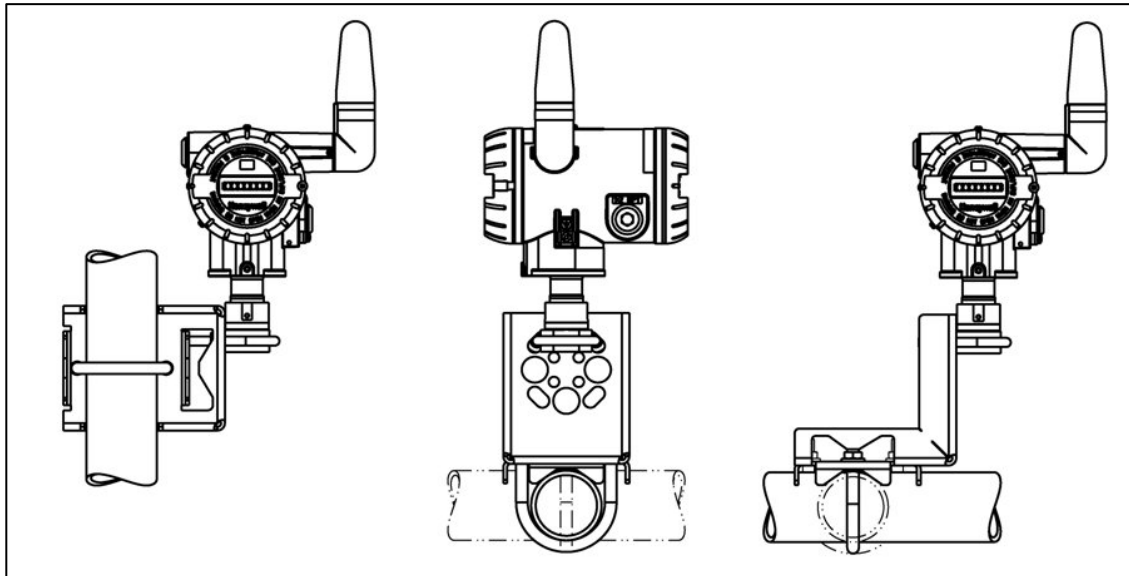


Figure 2 - Examples of typical mounting positions for in-line models

Dimensions

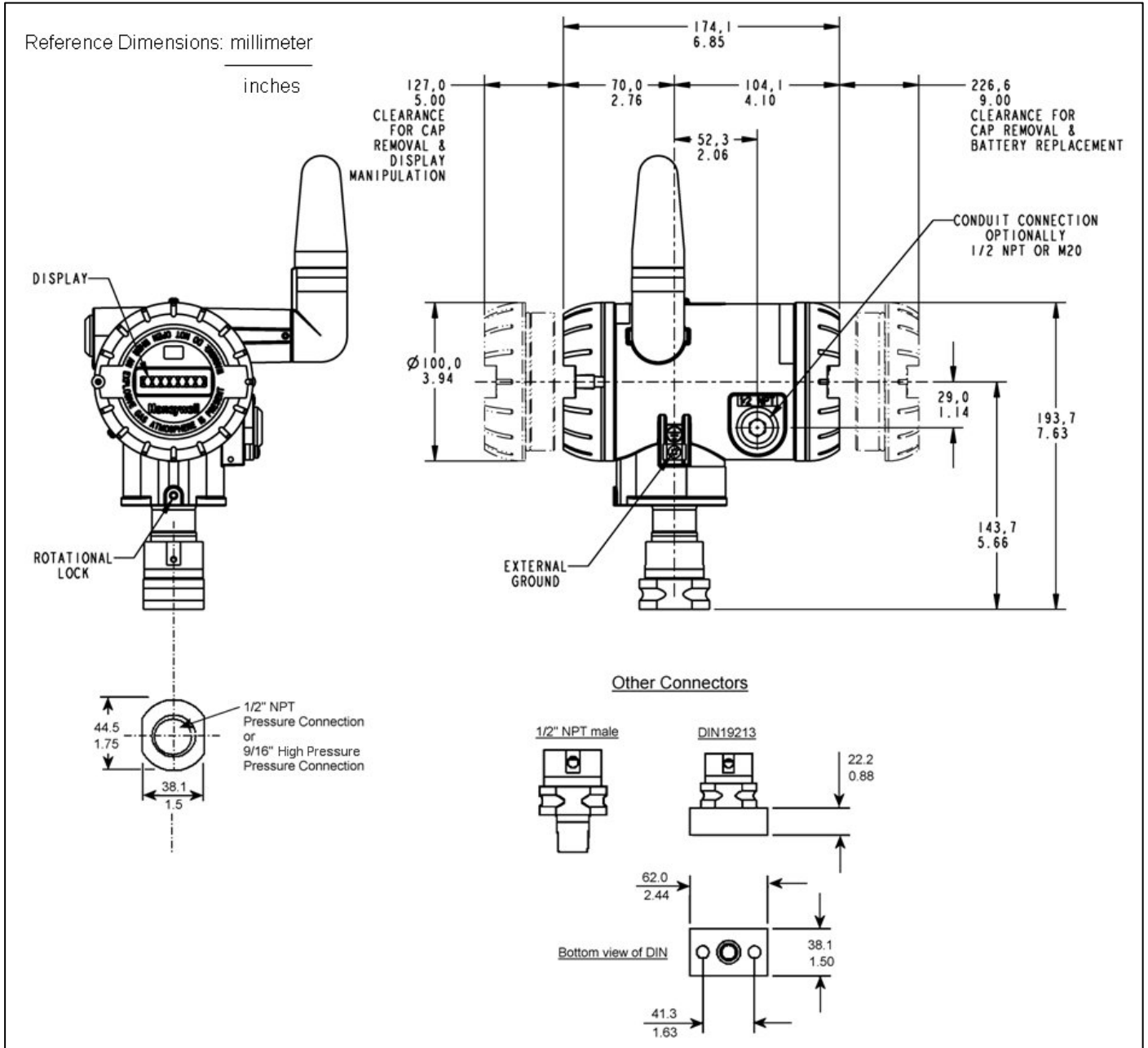


Figure 3 - Typical mounting dimensions for in-line models

Options

Mounting Bracket

The angle mounting bracket is available in either zinc-plated carbon steel or stainless steel and is suitable for horizontal or vertical mounting on a two inch (50 millimeter) pipe, as well as wall mounting. An optional flat mounting bracket is also available in carbon steel for two inch (50 millimeter) pipe mounting.

Tagging (Option TG)

Up to 30 characters can be added on the stainless steel nameplate mounted on the transmitter's electronics housing at no extra cost. A stainless steel wired on tag with additional data of up to 4 lines of 28 characters is also available. The number of characters for tagging includes spaces.

Transmitter Configuration

All configurable parameters are accessible via the OneWireless network via READ/WRITE transactions.

Sales and Service

For application assistance, current specifications, pricing, or name of the nearest Authorized Distributor, contact one of the offices below.

ASIA PACIFIC

(TAC)

hfs-tac-support@honeywell.com

Australia

Honeywell Limited
Phone: +(61) 7-3846 1255
FAX: +(61) 7-3840 6481
Toll Free 1300-36-39-36
Toll Free Fax:
1300-36-04-70

China – PRC - Shanghai

Honeywell China Inc.
Phone: (86-21) 5257-4568
Fax: (86-21) 6237-2826

Singapore

Honeywell Pte Ltd.
Phone: +(65) 6580 3278
Fax: +(65) 6445-3033

South Korea

Honeywell Korea Co Ltd
Phone: +(822) 799 6114
Fax: +(822) 792 9015

EMEA

Honeywell Process Solutions,
Phone: + 80012026455 or +44
(0)1202645583
FAX: +44 (0) 1344 655554

Email: (Sales)

sc-cp-apps-salespa62@honeywell.com

or

(TAC)
hfs-tac-support@honeywell.com

NORTH AMERICA

Honeywell Process Solutions,
Phone: 1-800-423-9883
Or 1-800-343-0228

Email: (Sales)

ask-ssc@honeywell.com

or

(TAC)
hfs-tac-support@honeywell.com

SOUTH AMERICA

Honeywell do Brasil & Cia
Phone: +(55-11) 7266-1900
FAX: +(55-11) 7266-1905

Email: (Sales)

ask-ssc@honeywell.com

or

(TAC)
hfs-tac-support@honeywell.com

Model Selection Guides are subject to change and are inserted into the specifications as guidance only. Prior to specifying or ordering a model check for the latest revision Model Selection Guides which are published at:

<http://hpsweb.honeywell.com/Cultures/en-US/Products/Instrumentation/ProductModelSelectionGuides/default.htm>

Model Selection Guide (34-XY-16-22)

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XYR 6000 Wireless Transmitter In-Line Gage & Absolute Pressure Series 100

Model Selection Guide



Instructions

- Select the desired Key Number. The arrow to the right marks the selection available.
- Make one selection from each table, I II and III, using the column below the proper arrow .
- Select as many Table IV options as desired (if no options or approvals are desired, specify 9X).
- A (♦) denotes unrestricted availability. A letter denotes restricted availability.
Restrictions follow Table VI.

Key Number I II III IV V VI
 [STGW_ _ _] - [_ _ _] - [00000] - [_ _ _ _ _] - [_ _ _ _ _] - [_ _ _ _ _] - XXXX

| KEY NUMBER | Span | Selection | | Availability | |
|----------------|--|-----------|---|--------------|---|
| | | | | | |
| Gage Pressure | 0-20 to 0-500 psig/0-1.4 to 0-35 bar | STGW14L | ↓ | | |
| | 0-300 to 0-3000 psig/0-21 to 0-210 bar | STGW17L | ↓ | | |
| In-Line Design | 0-500 to 0-6000 psig/0-35 to 0-415 bar | STGW18L | ↓ | | |
| | 0-500 to 0-10000 psig/0-35 to 0-690 bar | STGW19L | | | ↓ |
| Abs Pressure | 0-20 to 0-500 psia/0-1.4 to 0-35 barA (In-Line Design) | STAW14L | ↓ | | |

TABLE I - METER BODY

| Material of Construction | Wetted Adapter Material | Barrier Diaphragms | Selection | | |
|----------------------------------|--------------------------|--------------------------|-----------|-------|---|
| | | 316 SS | 316L SS | E _ _ | • |
| | 316 SS | Hastelloy C ¹ | F _ _ | • | • |
| Fill Fluid | Silicone | | _ 1 _ | • | • |
| | CTFE | | _ 2 _ | • | • |
| Process Connection Configuration | 9/16" - 18 High Pressure | | _ _ A | • | • |
| | 1/2" NPT (female) | | _ _ G | • | • |
| | 1/2" NPT (male) | | _ _ H | • | • |
| | DIN 19213 | | _ _ D | • | • |

TABLE II

| | | | |
|--------------|-------|---|---|
| No Selection | 00000 | • | • |
|--------------|-------|---|---|

¹ Hastelloy® C-276 or UNS N10276

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Availability
 STGW19L
 STGW14L, 17L, 18L, STAW14L

TABLE III - ANTENNA OPTIONS

| | | Selection | ↓ | ↓ |
|---|---|-----------|---|---|
| Antennas | Integral Right-angle, vertical 2dBi | V_____ | d | d |
| | Integral Straight, horizontal 2dBi | S_____ | d | d |
| | Integral Right-angle, vertical 4dBi | R_____ | d | d |
| | Remote Omnidirectional, 8 dBi | M_____ | e | e |
| | Remote Directional, 14 dBi | D_____ | e | e |
| | Remote Antenna Adapter, Type N Connection | A_____ | d | d |
| Cable A for Remote Antenna | None | _ 0 0 _ | • | • |
| | 1.0m remote Cable A, Type N (Req'd to connect to XYR 6000) | _ 2 1 _ | • | • |
| | 3.0m remote Cable A, Type N (Req'd to connect to XYR 6000) | _ 2 3 _ | • | • |
| | 10.0m remote Cable A, Type N (Req'd to connect to XYR 6000) | _ 2 9 _ | • | • |
| Cable B for Remote Antenna w/Accessories* | None | ___ 0 0 | • | • |
| | Accessory + 1.0m Cable B to Antenna, N - N | ___ 0 1 | • | • |
| | Accessory + 3.0m Cable B to Antenna, N - N | ___ 0 3 | • | • |
| | Accessory + 10.0m Cable B to Antenna, N - N | ___ 1 0 | • | • |

*See Supplemental Accessories

TABLE IV - OPTIONS

| Radio Options | (Must choose a Radio Option) | | | |
|---|------------------------------|---|---|---|
| 2.4 GHz Direct Sequence Spread Spectrum (802.15.4 DSSS) | XD | • | • | b |
| ISA 100.11a Compliant (2.4 GHz Direct Sequence Spread Spectrum 802.15.4 DSSS-FH) | XS | • | • | |
| Power Option | (Must choose Power Option) | | | |
| Battery Holder Only - No Battery Included | 00 | • | • | b |
| Battery Power | BA | • | • | |
| 24VDC | DC | • | • | |
| Transmitter Housing & Electronics Options | | | | |
| Custom Calibration and I.D. in Memory | CC | • | • | b |
| Transmitter Configuration and ID in Memory | TC | • | • | |
| M20 Conduit Thread (1/2" NPT is standard) | A1 | f | f | b |
| 1/2" NPT to 3/4" NPT 316 SS Conduit Adapter | A2 | g | g | |
| 316 SS ^{1,2} Electronics Housing - with M20 Conduit Connections | SH | • | • | b |
| 316 SS ^{1,2} Housing with 1/2" NPT Conduit Connection | A3 | • | • | |
| Stainless Steel Customer Wired-On Tag (4 lines, 28 characters per line, customer supplied information) | TG | • | • | b |
| Stainless Steel Customer Wired-On Tag (blank) | TB | • | • | |
| End Cap Warning Label in Spanish | SP | • | • | b |
| End Cap Warning Label in Portuguese | PG | • | • | |
| End Cap Warning Label in Italian | TL | • | • | |
| End Cap Warning Label in German | GE | • | • | |
| Transmitter Mounting Brackets Options | | | | |
| Mounting Bracket - Carbon Steel | MB | • | • | b |
| Mounting Bracket - 304 SS | SB | • | • | |
| Flat Mounting Bracket - Carbon Steel | FB | • | • | |
| Services/Calibration/Conformance Options | | | | |
| User's Manual Paper Copy | UM | • | • | b |
| Clean Transmitter for Oxygen or Chlorine Service with Certificate | 0X | h | h | |
| Over-Pressure Leak Test with F3392 Certificate | TP | • | • | |
| Calibration Test Report and Certificate of Conformance (F3399) | F1 | • | • | |
| Certificate of Conformance (F3391) | F3 | • | • | |
| Certificate Options | | | | |
| Certificate of Origin (F0195) | F5 | • | • | b |
| NACE Certificate (F0198) | F7 | • | • | |
| Material Traceability Certificate per EN 10204 3.1 (FC33341) | FX | • | • | |
| Warranty Options | | | | |
| Additional Warranty - 1 year | W1 | • | • | b |
| Additional Warranty - 2 years | W2 | • | • | |

¹ Supplied as 316 SS or as Grade CF8M, the casting equivalent of 316 SS.

² If ordered with Remote Antenna option, Table III Selection M_____ or D_____, antenna parts are not SS or Marine type cables

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STGW14L, 17L, 18L, STAW14L

Selection ↓ ↓

| Approval Body | Approval Type | Location or Classification | | | |
|-------------------------------------|---|---|-----|---|---|
| No hazardous location approvals | | | 9X | • | • |
| FM | Intrinsically Safe | Class I, II, III, Div. 1, Groups A,B,C,D,E,F,G; T4, Ta ≤ 85°C; Type 4X Class I, AEx ia IIC; T4, Ta ≤ 85°C, Zone 0; IP66 | 1C | • | • |
| | Explosion-proof | Class I, Div. 1, Groups A,B,C,D; Cl II, Div. 1, Groups E, F & G; Cl III, Div. 1, T4, Ta ≤ 85°C; Type 4X Class I, AEx d IIC; T4, Ta ≤ 85°C, Zone 1; IP66 | | | |
| | Nonincendive | Class I, Div. 2, Groups A,B,C,D; T4, Ta ≤ 85°C; Type 4X | | | |
| | Non-Sparking | Class I, AEx nA IIC; T4, Ta ≤ 85°C, Zone 2; IP66 | | | |
| CSA cus | Nonincendive | Nonincendive, CL I, Div 2, Groups A,B,C & D, CL II & III, Div 2, Groups F & G, T4 Ta = 85°C | 2N | • | • |
| | Non-Sparking | Class I, Ex/AEx nA IIC; T4, Ta ≤ 85°C, Zone 2; IP66 | | | |
| | Intrinsically Safe | Class I, Div. 1, Gp A,B,C,D; Class II, Div 1, Gp E,F,G; Class III, Div 1; T4, Ta ≤ 85°C; Type 4X Class I, Ex/AEx ia IIC; T4, Ta ≤ 85°C, Zone 0; IP66 | 2C | • | • |
| | Explosion-proof | Class I, Div. 1, Groups A,B,C,D; Class II, Div. 1, Groups E, F & G; Class III, Div. 1, T4, Ta ≤ 85°C; Type 4X Class I, Ex/AEx d IIC; T4, Ta ≤ 85°C, Zone 1; IP66 | | | |
| | Nonincendive | Class I, Div. 2, Groups A,B,C,D; T4, Ta ≤ 85°C; Type 4X | | | |
| Non-Sparking | Class I, Ex/AEx nA IIC; T4, Ta ≤ 85°C, Zone 2; IP66 | | | | |
| ATEX | Intrinsically Safe | ⊕ II 1 GD; Ex ia IIB; T4, Ta ≤ 70°C, Zone 0; IP66 Ex tD A20 IP66 T90°C | 3U | • | • |
| | Flameproof | ⊕ II 2 GD; Ex d [ia] IIB; T4, Ta ≤ 70°C, Zone 1; IP66 Ex tD A21 IP66 T90°C | 3B | • | • |
| | Non-Sparking | ⊕ II 3 GD; Ex nA [nL] IIC; T4, Ta ≤ 84°C, Zone 2 Ex tD A22 IP66 T90°C | 3Y | • | • |
| | Intrinsically Safe | ⊕ II 1 GD; Ex ia IIB; T4, Ta ≤ 70°C, Zone 0; IP66 Ex tD A20 IP66 T90°C | 3C* | • | • |
| | Flameproof | ⊕ II 2 GD; Ex d [ia] IIB; T4, Ta ≤ 70°C, Zone 1; IP66 Ex tD A21 IP66 T90°C | | | |
| | Non-Sparking | ⊕ II 3 GD; Ex nA [nL] IIC; T4, Ta ≤ 84°C, Zone 2 Ex tD A22 IP66 T90°C | | | |
| IECEX Australia & New Zealand | Intrinsically Safe | Ex ia IIB; T4, Ta ≤ 70°C, Zone 0; IP66 Ex tD A20 IP66 T90°C | CU | • | • |
| | Flameproof | Ex d [ia] IIB; T4, Ta ≤ 70°C, Zone 1; IP66 Ex tD A21 IP66 T90°C | CB | • | • |
| | Non-Sparking | Ex nA IIC; T4, Ta ≤ 84°C, Zone 2; IP66 Ex tD A22 IP66 T90°C | CY | • | • |
| | Intrinsically Safe | Ex ia IIB; T4, Ta ≤ 70°C, Zone 0; IP66 Ex tD A20 IP66 T90°C | C1* | • | • |
| | Flameproof | Ex d [ia] IIB; T4, Ta ≤ 70°C, Zone 1; IP66 Ex tD A21 IP66 T90°C | | | |
| | Non-Sparking | Ex nA [nL] IIC; T4, Ta ≤ 84°C, Zone 2; IP66 Ex tD A22 IP66 T90°C | | | |
| SAEx South Africa | Intrinsically Safe | Ex ia IIB; T4, Ta ≤ 70°C, Zone 0; IP66 Ex tD A20 IP66 T90°C | ZU | • | |
| | Flameproof | Ex d [ia] IIB; T4, Ta ≤ 70°C, Zone 1; IP66 Ex tD A21 IP66 T90°C | ZB | • | |
| | Non-Sparking | Ex nA [nL] IIC; T4, Ta ≤ 84°C, Zone 2; IP66 Ex tD A22 IP66 T90°C | ZY | • | |
| | Intrinsically Safe | Ex ia IIB; T4, Ta ≤ 70°C, Zone 0; IP66 Ex tD A20 IP66 T90°C | ZC* | • | |
| | Flameproof | Ex d [ia] IIB; T4, Ta ≤ 70°C, Zone 1; IP66 Ex tD A21 IP66 T90°C | | | |
| | Non-Sparking | Ex nA [nL] IIC; T4, Ta ≤ 84°C, Zone 2; IP66 Ex tD A22 IP66 T90°C | | | |
| INMETRO Brazil | Intrinsically Safe | Ex ia IIC; T4, Ta ≤ 85°C, Zone 0; IP 66 | 6C* | | |
| | Flameproof | Ex d IIC; T4, Ta ≤ 85°C, Zone 1; IP 66 | | | |
| | Non-Sparking | Ex nA IIC; T4, Ta ≤ 85°C, Zone 2; IP 66 | | | |

* The user must determine the type of protection required for installation of the equipment. The user shall then check the box [√] adjacent to the type of protection used on the equipment certification nameplate. Once a type of protection has been checked on the nameplate, subsequently the equipment shall not be reinstalled using any of the other certification types.
WARNING – Division 2 / Zone 2 apparatus may only be connected to processes classified as non-hazardous or Division 2 / Zone 2. Connection to hazardous (flammable or ignition capable) Division 1 / Zone 0, or 1 process is not permitted.

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 Issue 1
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Availability
 STGW19L
 STGW14L, 17L, 18L, STAW14L

TABLE V

| Country | (Must Choose a Country Code) | Country Code | STGW19L | STGW14L, 17L, 18L, STAW14L |
|-----------------------|------------------------------|--------------|---------|----------------------------|
| North America, Canada | | NA00 | • | • |
| European Union | | EU00 | • | • |
| Japan | | JP00 | m | m |
| Brazil | | BZ00 | • | • |

TABLE VI

| Factory Identification | Selection |
|------------------------|-----------|
| | XXXX |

RESTRICTIONS

| Restriction | Available Only With | | Not Available With | |
|-------------|--|------------------|--------------------|------------|
| | Table | Selection | Table | Selection |
| b | Select only one option from this group | | | |
| d | III | _ 00 __, __ _ 00 | | |
| e | | | III | _ 00 __ |
| f | | | IV | SH, A3 |
| g | | | IV | BA, SH, A1 |
| h | I | _ 2 _ | | |
| m | IV | 9X | | |

Supplemental Accessories & Kits

| Description | Part Number |
|---|--------------|
| 1/2 NPT Socket Plug (ZN Plated CS) | 50021832-001 |
| 1/2 NPT Certified Conduit Plug (SS) | 50021832-002 |
| M20 Certified Conduit Plug (SS) | 50000547-001 |
| M20 Conduit Plug (ZN Plated CS) | 50000547-002 |
| Surge Diverter* | 50018279-090 |
| Lithium Thionyl Chloride Batteries (Qty 2) | 50026010-501 |
| Lithium Thionyl Chloride Batteries (Qty 4) | 50026010-502 |
| Lithium Thionyl Chloride Batteries (Qty 10) | 50026010-503 |

* Surge Diverter Accessory supplied with Table III, Selections XXX01, XXX03, XXX10

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Learn more about how Honeywell's Wireless Transmitter Absolute Pressure Model can provide simple, safe, and secure wireless technology, visit our website www.honeywellprocess.com or contact your Honeywell account manager.

Honeywell Process Solutions

1860 West Rose Garden Lane
Phoenix, Arizona 85027
Tel: 1-800-423-9883 or 1-800-343-0228
www.honeywellprocess.com

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