

Wireless Transmitter Series XYR 6000 Series 100 Gauge Pressure Models Specifications

34-XY-03-46 August 2012

STGW14L	0 to 500 psi	0 to 35 bar
STGW17L	0 to 3,000 psi	0 to 210 bar
STGW18L	0 to 6,000 psi	0 to 415 bar
STGW19L	0 to 10,000 psi	0 to 690 bar

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 pressure transmitters offer 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 – 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) provides 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.

Pressure transmitters continue to bring a proven technology to a wide spectrum of pressure measurement applications, from furnace combustion airflow rate to hydrostatic tank gauging.



Figure 1 - XYR6000 Gauge 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 – All Models

Parameter	Reference Condition		Rated Condition		Operative Limits		Transportation and Storage		
	°C	°F	°C	°F	°C	°F	°C	°F	
Ambient Temperature ⁴	25 ±1	77 ±2	-40 to 70	-40 to 158	-40 to 85 ³	-40 to 185	-40 to 85	-40 to 185	
Ambient Temperature LCD Display visible range	25 ±1	77 ±2	-40 to 85	-40 to 185					
Meter Body Temperature	25 ±1	77 ±2	-40 to 110 ¹	-40 to 230 ¹	-40 to 110 ¹	-40 to 230 ¹			
Humidity %RH	10 to	55	0 to	100	0 to	0 to 100		0 to 100	
Vacuum Region - Minimum Pressure mmHg absolute inH2O absolute atmospheric atmospheric		_	25 3	2 (short term ²) 1 (short term ²)					
Maximum Allowable Working Pressure (MAWP) 5 (XYR6000 products are rated to Maximum Allowable Working Pressure. MAWP depends on Approval Agency and transmitter materials of construction.)	STGW14L = 500 psi, 35 bar STGW17L = 3,000 psi, 210 bar STGW18L = 6,000 psi, 415 bar STGW19L = 10,000 psi, 690 bar								
Vibration	Maximum of 4g over 15 to 200Hz.								
Shock	Maximum of 40g.								
	Battery powered 3.6V Lithium thionyl chloride (LiSOCI2) batteries non rechargeable, size D								
Power	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.								

¹ For CTFE fill fluid, the rating is -15 to 110°C (5 to 230°F).

 $^{^2}$ Short term equals 2 hours at 70°C (158 °F)

³ 24V power option rated 80C (176F)

⁴ 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.

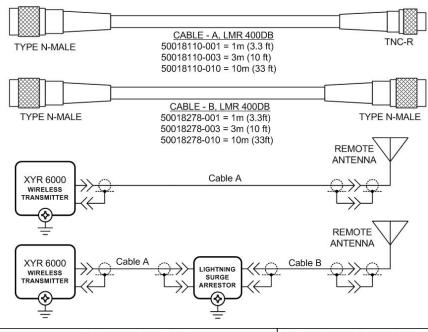
⁵ Consult factory for MAWP of XYR6000 transmitters with CSA approval.

Wireless Specifications

Parameter	Description
Wireless	2,400 to 2,483.5 MHz (2.4 GHz) Industrial, Scientific and Medical (ISM) band
Communication	DSSS Selection – Discrete Sequential Spread Spectrum per FCC 15.247 / IEEE 802.15.4–2006
	ISA100.11a Compliant (2.4 GHz Direct Sequence Spread Spectrum 802.15.4 DSSS-FH)
	Every data packet transmitted in either direction is verified (CRC check) and acknowledged by the receiving device.
	USA – FCC Certified
	Canada – IC Certified
	European Union – RTTE/ETSI Conformity
	Japan – Ministry of Internal Affairs and Communications Certified
ISA100.11a RF Transmitter Power (Optional)	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.
1 ower (Optional)	EU Selection – 10 mW (10.0 dBm) maximum EIRP including antenna per RTTE/ETSI for EU locations.
DSSS RF Transmitter Power (Optional)	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.
	EU Selection – 10 mW (10.0 dBm) maximum EIRP including antenna per RTTE/ETSI for EU locations.
	JP Selection – 12.14 dBm/MHz [32mW (15.14 dbm)] maximum EIRP including antenna for Japanese locations.
Data	PV Publish Cycle Time: Configurable as 1, 5, 10, 30 or 60 seconds Rate: 250 Kbps
Antennas	Integral – 2 dBi omnidirectional monopole
	Integral – 4 dBi omnidirectional monopole
	Remote – 8 dBi omnidirectional monopole with up to 20 m cable and lightning surge arrester.
	Remote – 14 dBi directional parabolic with up to 20 m cable and lightning surge arrester.
Signal Range	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.*
	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.)
Routing vs Non-	Unit can be set as a Field Routing or non-Field Routing device; the number of routing devices
Routing	is set by the system manager.
	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.

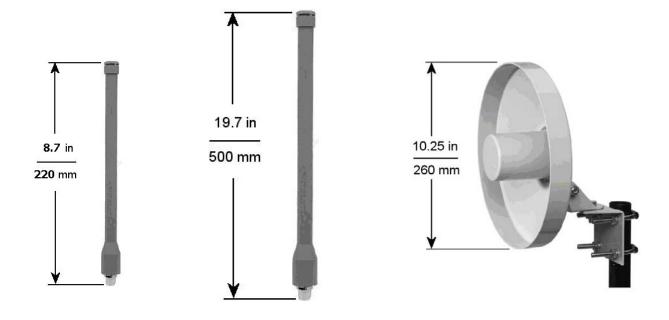
^{*} Actual range will vary depending on antennas, cables and site topography.

Remote Antenna Cables



CAB	LIGHTNING SURGE ARRESTOR		
CABLE A, B LENGTH	CAPACITANCE	INDUCTANCE	PARAMETERS
1 m	78.4 pF	0.2 µH	CAPACITANCE = 1 pF
3 m	235.2 pF	0.6 µH	INDUCTANCE = 10 nH
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 STGW14L (0 to 500 psi/35 bar)

Parameter	Description		
	500 35		
Minimum Span ps bai	5 0.35		
Zero Elevation and Suppression	No limit except minimum span from absolute 0 (zero) to +100% URL. Specifications valid over this range.		
Accuracy (Reference – Includes combined effects of linearity, hysteresis, and repeatability)	$\pm 0.0625\%$ of calibrated span or upper range value (URV), whichever is greater, terminal based. For URV below reference point (20 psi), accuracy equals: $\pm \left[0.0125 + 0.05 \left(\frac{20 \text{ psi}}{\text{span/ psi}} \right) \right] \text{ or } \pm \left[0.0125 + 0.05 \left(\frac{1.4 \text{ bar}}{\text{span/ bar}} \right) \right] \text{ in \% of span}$		
Zero Temperature Effect per 28°C (50°F)	$\pm 0.05\%$ of span. For URV below reference point (75 psi), effect equals: $\pm 0.05 \left(\frac{75 \text{ psi}}{\text{span/ psi}}\right) \text{ or } \pm 0.05 \left(\frac{5.25 \text{ bar}}{\text{span/ bar}}\right) \text{ in \% of span}$		
Combined Zero and Span Temperature Effect per 28°C (50°F)	$\pm 0.075\%$ of span. For URV below reference point (75 psi), effect equals: $\pm \left[0.025 + 0.05 \left(\frac{75 \text{ psi}}{\text{span/ psi}}\right)\right] \text{ or } \pm \left[0.025 + 0.05 \left(\frac{5.25 \text{ bar}}{\text{span/ bar}}\right)\right] \text{ in \% of span}$		

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

Performance under Rated Conditions* - Model STGW17L (0 to 3,000 psi/210 bar)

Parameter	Description		
	3,000 210		
Minimum Span psi bar			
Zero Elevation and Suppression	No limit except minimum span from absolute 0 (zero) to +100% URL. Specifications valid over this range.		
Accuracy (Reference – Includes combined effects of linearity, hysteresis, and repeatability) •	$\pm 0.0625\%$ of calibrated span or upper range value (URV), whichever is greater, terminal based. For URV below reference point (750 psi), accuracy equals: $\pm \left[0.0125 + 0.05 \left(\frac{750 \text{ psi}}{\text{span/ psi}} \right) \right] \text{ or } \pm \left[0.0125 + 0.05 \left(\frac{52 \text{ bar}}{\text{span/ bar}} \right) \right] \text{ in } \% \text{ of span}$		
Zero Temperature Effect per 28°C (50°F)	$\pm 0.10\%$ of span. For URV below reference point (500 psi), effect equals: $\pm 0.10 \left(\frac{500 \text{ psi}}{\text{span/ psi}} \right) \text{ or } \pm 0.10 \left(\frac{35 \text{ bar}}{\text{span/ bar}} \right) \text{ in } \% \text{ of span}$		
Combined Zero and Span Temperature Effect per 28°C (50°F)	$\pm 0.15\%$ of span. For URV below reference point (500 psi), effect equals: $\pm \left[0.05 + 0.10 \left(\frac{500 \text{ psi}}{\text{span/ psi}}\right)\right] \text{ or } \pm \left[0.05 + 0.10 \left(\frac{35 \text{ bar}}{\text{span/ bar}}\right)\right] \text{ in } \% \text{ of span}$		

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

Performance under Rated Conditions* - Model STGW18L (0 to 6,000 psi/415 bar)

Parameter		Description
Upper Range Limit	psi bar	6,000 415
Minimum Span	psi bar	60 4.1
Zero Elevation and Suppres	ssion	No limit except minimum span from absolute 0 (zero) to +100% URL. Specifications valid over this range.
Accuracy (Reference – Includes combined effects of linearity, hysteresis, and repeatability) •		$\pm 0.0625\%$ of calibrated span or upper range value (URV), whichever is greater, terminal based. For URV below reference point (1,500 psi), accuracy equals: $\pm \left[0.0125 + 0.05 \left(\frac{1,500 \text{ psi}}{\text{span/ psi}}\right)\right] \text{ or } \pm \left[0.0125 + 0.05 \left(\frac{104 \text{ bar}}{\text{span/ bar}}\right)\right] \text{ in } \% \text{ of span}$
Zero Temperature Effect per 28°C (50°F)		$\pm 0.10\%$ of span. For URV below reference point (1,000 psi), effect equals: $\pm 0.10 \left(\frac{1,000 \text{ psi}}{\text{span/ psi}} \right) \text{ or } \pm 0.10 \left(\frac{70 \text{ bar}}{\text{span/ bar}} \right) \text{ in \% of span}$
Combined Zero and Span Temperature Effect per 28°C (50°F)		$\pm 0.15\%$ of span. For URV below reference point (1,000 psi), effect equals: $\pm \left[0.05 + 0.10 \left(\frac{1,000 \text{ psi}}{\text{span/ psi}}\right)\right] \text{ or } \pm \left[0.05 + 0.10 \left(\frac{70 \text{ bar}}{\text{span/ bar}}\right)\right] \text{ in \% of span}$

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

Performance under Rated Conditions* - Model STGW19L (0 to 10,000 psi/690 bar)

Parameter		Description
Upper Range Limit	psi bar	10,000 690
Minimum Span	psi bar	100 7
Zero Elevation and Suppr	ession	No limit except minimum span from absolute 0 (zero) to +100% URL. Specifications valid over this range.
Accuracy (Reference – Ir combined effects of linear hysteresis, and repeatabil	ity,	$\pm 0.0625\%$ of calibrated span or upper range value (URV), whichever is greater, terminal based. For URV below reference point (2,500 psi), accuracy equals: $\pm \left[0.0125 + 0.05 \left(\frac{2,500 \text{ psi}}{\text{span/ psi}}\right)\right] \text{ or } \pm \left[0.0125 + 0.05 \left(\frac{173 \text{ bar}}{\text{span/ bar}}\right)\right] \text{ in } \% \text{ of span}$
Zero Temperature Effect per 28°C (50°F)		$\pm 0.10\%$ of span. For URV below reference point (1,800 psi), effect equals: $\pm 0.05 \left(\frac{1,800 \text{ psi}}{\text{span/ psi}}\right) \text{ or } \pm 0.05 \left(\frac{173 \text{ bar}}{\text{span/ bar}}\right) \text{ in \% of span}$
Combined Zero and Span Temperature Effect per 28°C (50°F)		$\pm 0.15\%$ of span. For URV below reference point (1,800 psi), effect equals: $\pm \left[0.05 + 0.10 \left(\frac{1,800 \text{ psi}}{\text{span/ psi}}\right)\right] \text{ or } \pm \left[0.05 + 0.10 \left(\frac{124 \text{ bar}}{\text{span/ bar}}\right)\right] \text{ in \% of span}$

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

Physical and Approval Bodies

Parameter	Description
Barrier Diaphragm Material	316L SS, Hastelloy ^{® 1} C-276
Process Head Material	316L SS process interface.
Mounting Bracket	Carbon Steel (Zinc-plated) or Stainless Steel angle bracket or Carbon Steel flat bracket available.
Fill Fluid	Silicone oil or CTFE (Chlorotrifluoroethylene)
Electronic Housing Stainless Steel Housing (option)	Epoxy-Polyester hybrid paint. Low Copper-Aluminum. Meets NEMA 4X (hosedown and corrosion resistant), IP 66/67 (hosedown and submersible to 1m).
ctanness steer riedsing (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. Mounting should result in the antenna being vertically oriented. 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 (3.2Kg) ²

 $^{^{1}}$ Hastelloy $^{\!\scriptscriptstyle (\!R\!)}$ C-276 or UNS N10276

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 for all Models

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 \pm 20%, Impulse Breakdown Voltage = 1,000 V \pm 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.

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)

Certifications

MSG CODE	AGENCY	TYPE OF PROTECTION
2C		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
	CSA 1903673 (USA and Canada)	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
		Intrinsically Safe:
	FM Approvals [™]	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 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
1C	3032450	Class I, Zone 2 AEx nA IIC, T4
	(USA)	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 +85 °C : Battery -40 °C to +80 °C : DC Supply
		Enclosure: Type 4X/ IP66
		Intrinsically Safe:
	ATEX- KEMA	II 1 G EX IA IIB 14 II 1 D Ex tD A20 IP66 T90 °C
		Flameproof:
3C		II 2 G Ex d [ia] IIB T4
	08ATEX0062X	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 Nonincendive:
	ATEV DEVDA	II 3 G Ex nA [nL] IIC T4
		II 3 D Ex tD A22 IP66 T90 °C
	ATEX- DEKRA 08ATEX0074	Ambient Temperature
	OU/TEXOUT4	-40 °C to +84 °C : Battery
		-40 °C to +80 °C : DC Supply
		Enclosure: IP66

MSG CODE	AGENCY	TYPE OF PROTECTION
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 Enclosure: IP66
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 Enclosure: IP66
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.

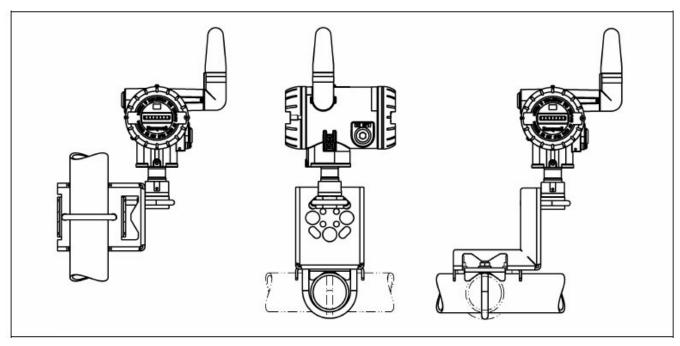
DC Supply

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



 $\label{eq:Figure 2-Examples of typical mounting positions for in-line models STGW14L, STGW17L, STGW18L and STGW19L. Note that a mounting bracket is not required for in-line models.}$

Dimensions

Reference Dimensions: $\frac{\text{millimeters}}{\text{inches}}$

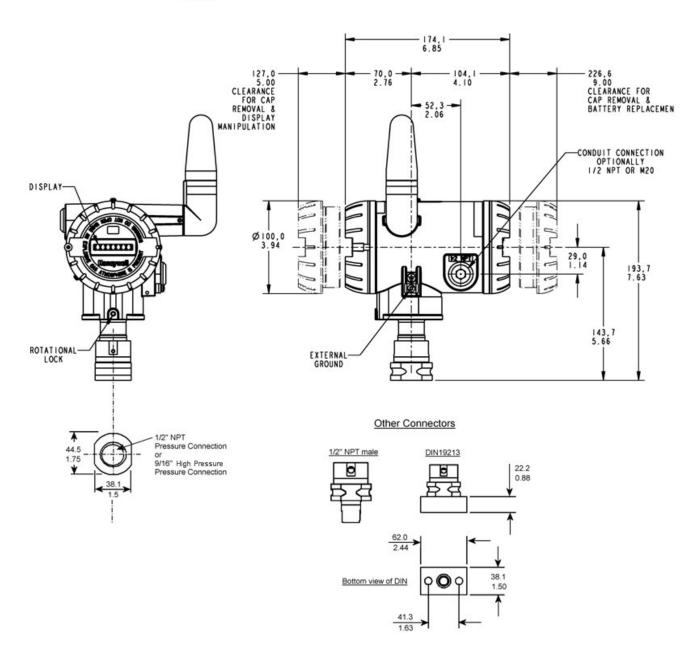


Figure 3 - Typical mounting dimensions for in-line models STGW14L, STGW17L, STGW18L and STGW19L for reference

Options

Mounting Bracket

The angle mounting bracket is available in either zincplated 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.

Transmitter Configuration

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

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.

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-tacsupport@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

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ask-ssc@honeywell.com

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or (TAC) hfs-tac-

hfs-tacsupport@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)

34-XY-16U-22 Issue 1 Page 1 of 4

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		;	Sele	ction	Ava	ııabıı	ity
	Span						
	0-20 to 0-500 psig/0-1.4 to 0-35 bar	\$	STG	W14	- ↓		

	Span					
	0-20 to 0-500 psig/0-1.4 to 0-35 bar	ST	GW1	4L	₩	
Gage Pressure	0-300 to 0-3000 psig/0-21 to 0-210 bar	ST	GW1	7L	₩	
In-Line Design	0-500 to 0-6000 psig/0-35 to 0-415 bar	ST	GW1	8L	₩	
	0-500 to 0-10000 psig/0-35 to 0-690 bar	ST	GW1	9L		$ \psi $
Abs Pressure	0-20 to 0-500 psia/0-1.4 to 0-35 barA (In-Line Design)	ST	AW1	4L	₩	

TABLE I - METER BODY

Material of	Wetted Adapter Material	Barrier Diaphragms	Selection		
Construction	316 SS 316 SS	316L SS Hastelloy C ¹	E F	•	•
Fill Fluid	Silicone CTFE		_1_ _2_	•	•
Process Connection Configuration	9/16" - 18 High Pressure 1/2" NPT (female) 1/2" NPT (male) DIN 19213			•	•

TABLE II

No Selection 00000 • •

¹ Hastelloy® C-276 or UNS N10276

34-XY-16U-22 Issue 1 Page 2 of 4

Availability STGW19L STGW14L, 17L, 18L, STAW14L **TABLE III - ANTENNA OPTIONS** Selection Integral Right-angle, vertical 2dBi Antennas d d Integral Straight, horizontal 2dBi S d d Integral Right-angle, vertical 4dBi d d Remote Omnidirectional, 8 dBi Remote Directional, 14 dBi D е е Remote Antenna Adapter, Type N Connection d d Cable A for None 0 0 __21__ _23__ Remote Antenna 1.0m remote Cable A, Type N (Req'd to connect to XYR 6000) 3.0m remote Cable A, Type N (Req'd to connect to XYR 6000) 29 10.0m remote Cable A, Type N (Req'd to connect to XYR 6000) ____00 Cable B for ___01 Remote Antenna Accessory + 1.0m Cable B to Antenna, N - N ___03 Accessory + 3.0m Cable B to Antenna, N - N w/Accessories* Accessory + 10.0m Cable B to Antenna, N - N 10

TABLE IV - OPTIONS

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Radio Options (Must choose a Radio Option)				
2.4 GHz Direct Sequence Spread Spectrum (802.15.4 DSSS)	XD	•	•	l
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	•	•	١.
Battery Power	BA DC	:	•	t
24VDC	DC	·	·	
Transmitter Housing & Electronics Options				
Custom Calibration and I.D. in Memory	CC	•	•	
Transmitter Configuration and ID in Memory	TC	•	•	_
M20 Conduit Thread (1/2" NPT is standard)	A1	f	f	k
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	•	•	k
316 SS ^{1,2} Housing with 1/2" NPT Conduit Connection	A3	•	•	
Stainless Steel Customer Wired-On Tag	TG	•	•	
(4 lines, 28 characters per line, customer supplied information)				k
Stainless Steel Customer Wired-On Tag (blank)	TB	•	•	
End Cap Warning Label in Spanish	SP	•	•	
End Cap Warning Label in Portuguese	PG	•	•	b
End Cap Warning Label in Italian	TL	•	•	
End Cap Warning Label in German	GE	•	•	
Transmitter Mounting Brackets Options				
Mounting Bracket - Carbon Steel	MB	•	•	
Mounting Bracket - 304 SS	SB	•	•	b
Flat Mounting Bracket - Carbon Steel	FB	•	•	
Services/Calibration/Conformance Options				
User's Manual Paper Copy	UM	•	•	
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	•	•	b
Certificate of Conformance (F3391)	F3	•	•	
Certificate Options				
Certificate of Origin (F0195)	F5	•	•	
NACE Certificate (F0198)	F7	•	•	
Material Tracebility Certificate per EN 10204 3.1 (FC33341)	FX	•	•	
Warranty Options				
Additional Warranty - 1 year	W1	•	•	b
Additional Warranty - 2 years	W2		•	
1 Supplied as 216 SS or as Credo CE9M the equition or six cleant of 216 SS			ш	

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

^{*}See Supplemental Accessories

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

34-XY-16U-22 Issue 1 Page 3 of 4

Availability STGW19L STGW14L, 17L, 18L, STAW14L

↓ Selection Approval Location or Classification Body Approval Type No hazardous location approvals 9X Class I, II, III, Div. 1, Groups A,B,C,D,E,F,G; Intrinsically Safe T4, Ta ≤ 85°C; Type 4X Class I, AEx ia IIC; T4, Ta ≤ 85°C, Zone 0; IP66 Class I, Div. 1, Groups A,B,C,D; CI II, Div. 1, Groups E, F & G; 1C FM Explosion-proof CI 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 Nonincendive, CL I, Div 2, Groups A,B,C & D, Nonincendive CL II & III, Div 2, Groups F & G, T4 Ta = 85°C 2N Class I, Ex/AEx nA IIC; T4, Ta ≤ 85°C, Zone 2; IP66 Non-Sparking 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 Intrinsically Safe Class I, Ex/AEx ia IIC; T4, Ta ≤ 85°C, Zone 0; IP66 CSA Class I, Div. 1, Groups A,B,C,D; cus Class II, Div. 1, Groups E, F & G; Explosion-proof 2C Class III, Div. 1, T4, Ta ≤ 85°C; Type 4X Class I, Ex/AEx d IIC; T4, Ta ≤ 85°C, Zone 1; IP66 Class I, Div. 2, Groups A,B,C,D; T4, Nonincendive Ta ≤ 85°C; Type 4X Non-Sparking Class I, Ex/AEx nA IIC; T4, Ta ≤ 85°C, Zone 2; IP66 (Ex) II 1 GD; Exia IIB; T4, Ta ≤ 70°C, Zone 0; IP66 Intrinsically Safe 3U Ex tD A20 IP66 T90℃ (Ex) II 2 GD; Ex d [ia] IIB; T4, Ta ≤ 70°C, Zone 1; IP66 Flameproof 3B Ex tD A21 IP66 T90℃ 3Y • • Non-Sparking **ATEX** 🕟 II 1 GD; Exia IIB; T4, Ta ≤ 70°C, Zone 0; IP66 Intrinsically Safe Ex tD A20 IP66 T90°C (Ex) II 2 GD; Ex d [ia] IIB; T4, Ta ≤ 70°C, Zone 1; IP66 3C* Flameproof ExtD A21 IP66 T90℃ (Ex) II 3 GD; Ex nA [nL] IIC; T4, Ta ≤ 84°C, Zone 2 Non-Sparking Ex tD A22 IP66 T90℃ Ex ia IIB; T4, Ta ≤ 70°C, Zone 0; IP66 Intrinsically Safe CU ExtD A20 IP66 T90°C Exd [ia] IIB; T4, Ta ≤ 70°C, Zone 1; IP66 Flameproof CB • • ExtD A21 IP66 T90°C Ex nA IIC; T4, Ta ≤ 84°C, Zone 2; IP66 **IFCFx** Non-Sparking • CY ExtD A22 IP66 T90℃ Australia & Ex ia IIB; T4, Ta ≤ 70°C, Zone 0; IP66 New Zealand Intrinsically Safe Ex tD A20 IP66 T90℃ Exd [ia] IIB; T4, Ta ≤ 70°C, Zone 1; IP66 Flameproof C1* Ex tD A21 IP66 T90℃ Ex nA [nL] IIC; T4, Ta ≤ 84°C, Zone 2; IP66 Non-Sparking ExtD A22 IP66 T90℃ Intrinsically Safe Ex ia IIB; T4, Ta ≤ 70°C, Zone 0; IP66 ZU • ExtD A20 IP66 T90°C Flameproof Ex d [ia] IIB; T4, Ta ≤ 70°C, Zone 1; IP66 ΖB ExtD A21 IP66 T90℃ Non-Sparking Ex nA [nL] IIC; T4, Ta \leq 84°C, Zone 2; IP66 ΖY • SAEx ExtD A22 IP66 T90°C South Africa Ex ia IIB; T4, Ta ≤ 70°C, Zone 0; IP66 Intrinsically Safe Ex tD A20 IP66 T90°C Flameproof Exd [ia] IIB; T4, Ta ≤ 70°C, Zone 1; IP66 7C* ExtD A21 IP66 T90℃ Non-Sparking Ex nA [nL] IIC; T4, Ta ≤ 84°C, Zone 2; IP66 ExtD A22 IP66 T90°C Ex ia IIC; T4, Ta ≤ 85°C, Zone 0; IP 66 Intrinsically Safe **INMETRO** 6C*

Ex d IIC; T4, Ta ≤ 85°C, Zone 1; IP 66

Flameproof

Brazil

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 [\dagged] 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.

34-XY-16U-22

Issue 1

Page 4 of 4

TABLE V

Country	(Must Choose a Country Code)	Country Code	•	*	
North America, Canada		NA00	•	•	j
European Union		EU00	•	•	b
Japan		JP00	m	m	l
Brazil		BZ00	•	•	l

 TABLE VI

 Factory Identification
 XXXX
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RESTRICTIONS

Restriction	Available Only With		Not Available With		
Letters	Table	Selection	Table	Selection	
b		Select only one option fr	om this gr	oup	
d	III	_ 00, 00			
е			III	_ 00	
f			IV	SH, A3	
g			IV	BA, SH, A1	
h		_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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Specifications are subject to change without notice.

For More Information

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34-XY-03-46 August 2012 © 2012 Honeywell International Inc.