# OneWireless XYR 6000 Transmitters Quick Start Guide

34-XY-25-21 Revision 12 February 2013

**Honeywell Process Solutions** 

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# **About This Document**

This document describes mounting, installation and wiring of the XYR 6000 Wireless Transmitters and antennae. Configuration, authentication and operation are covered in other documents.

Honeywell does not recommend using devices for critical control where there is a single point of failure or where single points of failure result in unsafe conditions. OneWireless is targeted at open loop control, supervisory control, and controls that do not have environmental or safety consequences. As with any process control solution, the end-user must weigh the risks and benefits to determine if the products used are the right match for the application based on security, safety, and performance. Additionally, it is up to the end-user to ensure that the control strategy sheds to a safe operating condition if any crucial segment of the control solution fails.

### **Revision Information**

Document Name XYR 6000 Transmitters Quick Start Guide	Document No. 34-XY-25-21 Rev. No.	Publication Date
ATEX and IECEx control drawings and Multi DI manual added	5	April 2009
Product Ratings tables, STUW700/701/8x0, Universal IO, 2dBi and 4dBi antenna and 24V Power Supply details added	6	Sept 2009
FM/CSA/IECEx approval updates	7	Nov 2009
ATEX approval updates	8	March 2010
ISABattery Pack added	9	October 2010
Flange Mount and Remote Seal data, updated Approvals information	10	March 2012
Installation Drawings	11	April 2012
Reference documents and OW R210 software release added	12	February 2013

### References

The following list identifies all documents that may be sources of reference for material discussed in this publication.

Document Title	Document number
OneWireless XYR 6000 Pressure Transmitter User's Manual	34-XY-25-15
OneWireless XYR 6000 Temperature and DI Transmitter User's Manual	34-XY-25-16
OneWireless XYR 6000 HLAI Transmitter User's Manual	34-XY-25-17
OneWireless XYR 6000 SmartCET Corrosion Transmitter User's Manual	34-XY-25-18
OneWireless XYR 6000 Multi Discrete Input Transmitter User's Manual	34-XY-25-27
OneWireless XYR 6000 Universal Input/Output User's Manual	34-XY-25-30

Continued on next page

## **References (continued)**

OW-CDX010	OW-CDX010
OneWireless Wireless Builder User's Guide	OW-CDX060
OneWireless Builder Parameter Reference	OW-CDX070
OW R210 Hardware Planning and Installation Guide	OW-CC0010
OW R210 Wireless Device Manager User's Guide	OW-CC0020
OW R210 Field Device Access Point User's Guide	OW-CC0030
OneWireless R210 Parameter Reference Dictionary	OW-CC0050
OneWireless R210 Migration Users Guide	OW-CC0080
OW R210 Software Change Notice	OW-CCSCN1

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# **Symbol Definitions**

The following table lists those symbols used in this document to denote certain conditions.

Symbol	Definition
	<b>ATTENTION:</b> Identifies information that requires special consideration.
	<b>TIP:</b> Identifies advice or hints for the user, often in terms of performing a task.
CAUTION	Indicates a situation which, if not avoided, may result in equipment or work (data) on the system being damaged or lost, or may result in the inability to properly operate the process.
	<b>CAUTION</b> : Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.
	<b>CAUTION</b> symbol on the equipment refers the user to the product manual for additional information. The symbol appears next to required information in the manual.
	<b>WARNING</b> : Indicates a potentially hazardous situation, which, if not avoided, could result in serious injury or death.
	<b>WARNING</b> symbol on the equipment refers the user to the product manual for additional information. The symbol appears next to required information in the manual.
4	<b>WARNING, Risk of electrical shock</b> : Potential shock hazard where HAZARDOUS LIVE voltages greater than 30 Vrms, 42.4 Vpeak, or 60 VDC may be accessible.
	<b>ESD HAZARD:</b> Danger of an electro-static discharge to which equipment may be sensitive. Observe precautions for handling electrostatic sensitive devices.
	<b>Protective Earth (PE) terminal</b> : Provided for connection of the protective earth (green or green/yellow) supply system conductor.
Ē	<b>Functional earth terminal</b> : Used for non-safety purposes such as noise immunity improvement. NOTE: This connection shall be bonded to Protective Earth at the source of supply in accordance with national local electrical code requirements.
<u> </u>	<b>Earth Ground: Functional earth connection.</b> NOTE: This connection shall be bonded to Protective Earth at the source of supply in accordance with national and local electrical code requirements.
$\rightarrow$	<b>Chassis Ground</b> : Identifies a connection to the chassis or frame of the equipment shall be bonded to Protective Earth at the source of supply in accordance with national and local electrical code requirements.
continued	

Symbol	Definition
FM	The Factory Mutual <sup>®</sup> Approval mark means the equipment has been rigorously tested and certified to be reliable.
SP.	The Canadian Standards mark means the equipment has been tested and meets applicable standards for safety and/or performance.
Æx>	The Ex mark means the equipment complies with the requirements of the European standards that are harmonised with the 94/9/EC Directive (ATEX Directive, named after the French "ATmosphere EXplosible").
<b>€€</b> <sup>0981</sup>	For radio equipment used in the European Union in accordance with the R&TTE Directive the CE Mark and the notified body (NB) identification number is used when the NB is involved in the conformity assessment procedure. The alert sign must be used when a restriction on use (output power limit by a country at certain frequencies) applies to the equipment and must follow the CE marking.
<b>N</b> 314	The C-Tick mark is a certification trade mark registered to ACMA (Australian Communications and Media Authority) in Australia under the Trade Marks Act 1995 and to RSM in New Zealand under section 47 of the NZ Trade Marks Act. The mark is only to be used in accordance with conditions laid down by ACMA and RSM. This mark is equal to the CE Mark used in the European Union.
	N314 directly under the logo is Honeywell's unique supplier identification number.
Segurança Noc INMETRO OPC-0034	The INMETRO (Brazil) mark means the tested and meets applicable standards for safety

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# 1. Introduction

### **1.1** Site preparation

Wireless devices require proper site preparation to ensure optimum performance and safety compliance. Do not proceed until you have done the proper planning described in the Wireless Planning Guide.

# 1.2 European Union Usage

This product may be used in any of the following European Union nations.

Country	ISO 3166	Country	ISO 3166
, , , , , , , , , , , , , , , , , , ,	2 letter code		2 letter code
Austria	АТ	Latvia	LV
Belgium	BE	Liechtenstein	LI
Bulgaria	BG	Lithuania	LT
Cyprus	СҮ	Malta	МТ
Czech Republic	CZ	Netherlands	NL
Denmark	DK	Norway	NO
Estonia	EE	Poland	PL
Finland	FI	Portugal	PT
France	FR	Romania	RO
Germany	DE	Slovakia	SK
Greece	GR	Slovenia	SI
Hungary	HU	Spain	ES
Iceland	IS	Sweden	SE
Ireland	IE	Switzerland	СН
Italy	IT	United Kingdom	BG

Table 1-1 European	Union
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# **1.3 Certifications and Approvals**

### Hazardous location certifications

Refer to product label for applicable approvals.

### Table 1-2 Certifications and Approvals

AGENCY	TYPE OF PROTECTION	Ambient Temperature	Product Applicability*
	Intrinsically Safe:		Pressure
	Class I; Division 1; Groups A, B, C, D Class II, Division 1, Groups E, F, G;	; -40 ° C to +85 ° C : Battery	Temperature/ Discrete Inputs
	Class III, Division 1; T4	-40 ° C to +80 ° C : DC	Corrosion
	Class I, Zone 0 Ex ia IIC T4	Supply	High Level INPUT (HLAI)
	Class I, Zone 0 AEx ia IIC T4		Universal I/O
	Nonincendive:		Pressure
	Class I; Division 2; Groups A, B, C, D Class II, Division 2, Groups F, G;	; -40 ° C to +85 ° C : Battery	Temperature/ Discrete Inputs
	Class III, Division 2, T4	-40 ° C to +80 ° C : DC	High Level INPUT (HLAI)
	Class I, Zone 2 Ex nA IIC, T4	Supply	Universal I/O
	Class I, Zone 2 AEx nA IIC, T4		
CSA	Explosion-Proof/ Flameproof:		Pressure
1903673	Class I, Division 1; Groups A, B, C, D	;	Temperature/ Discrete
(USA and	Class II, Division 1, Groups E, F, G;	$40^{\circ}$ C to +85 $^{\circ}$ C : Battery	Inputs
Canada)	Class III, Division 1; T4	-40 ° C to +80 ° C : DC Supply	
Ganaday	Class I, Zone 1 Ex d IIC T4		High Level INPUT (HLAI)
	Class I, Zone 1 AEx d IIC, T4		Universal I/O
	Enclosure: Type 4X/ IP66		
	Standards Used:		
	CSA-C22.2 No. 30:M1986	CSA-C22.2 No. 142:M1987	CSA-C22.2 No. 213:M1987
	CSA-C22.2 No. 94:M1991	CSA-C22.2 No. 157:M1992	CSA-C22.2 No. 60529:2005
	CSA E60079-0: 2002	CSA E60079-1: 2002	CSA E60079-11: 2002
	CSA E60079-15: 2002	CSA E61241-0: 2002	CSA E61241-1: 2002
	FM 3600: 1998	FM 3610: 1999	FM 3611: 2004
	FM 3615: 2006	ANSI/ ISA 12.12.02: 2003	UL 50:2003
	UL 916:1998		

AGENCY	TYPE OF PROTECTION	Ambient Temperature	Product Applicability*
	Intrinsically Safe: Class I; Division 1; Groups A, B, C, E Class II, Division 1, Groups E, F, G; Class III, Division 1; T4 Class I, Zone 0 AEx ia IIC T4	); -40 ° C to +85 ° C : Battery -40 ° C to +80 ° C : DC Supply	Pressure Temperature/ Discrete Inputs Corrosion High Level INPUT (HLAI) Universal I/O
FM	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	D; -40 ° C to +85 ° C : Battery -40 ° C to +80 ° C : DC Supply	Pressure Temperature/ Discrete Inputs High Level INPUT (HLAI) Universal I/O
ApprovalsTM 3032450 (USA)	Explosion-Proof/ Flameproof: Class I, Division 1; Groups A, B, C, E Class II, Division 1, Groups E, F, G; Class III, Division 1; T4 Class I, Zone 1 AEx d IIC, T4	); -40 ° C to +85 ° C : Battery -40 ° C to +80 ° C : DC Supply	Pressure Temperature/ Discrete Inputs Corrosion High Level INPUT (HLAI) Universal I/O
	Enclosure: Type 4X/ IP66           Standards Used:           FM 3600:1998           FM 3615:2006           ANSI/ ISA 12.02.01: 2002           ANSI/ IEC 60529: 2004	FM 3610: 2007 FM 3810: 2005 ANSI/ ISA 12.12.02: 2003 ANSI/ NEMA 250: 2003	FM 3611: 2004 ANSI/ ISA 12.00.01: 2002 ANSI/ ISA 12.22.01: 2005

AGENCY	TYPE OF PROTECTION	Ambient Temperature	Product Applicability*
	Intrinsically Safe: II 1 G Ex ia IIB T4 II 1 D Ex tD A20 IP66 T90 oC	-40 ° C to +70 ° C: Battery -40 ° C to +80 ° C : DC Supply	Pressure Temperature/ Discrete Inputs Corrosion High Level INPUT (HLAI) Universal I/O
ATEX- KEMA 08ATEX0062X	Flameproof: II 2 G Ex d [ia] IIB T4 II 2 D Ex tD A21 IP66 T90 oC	-40 ° C to +70 ° C: Battery -40 ° C to +80 ° C : DC Supply	Pressure Corrosion High Level INPUT (HLAI) Universal I/O
	Enclosure: IP66 Standards Used: EN 60079-0 : 2006 EN 60079-26 : 2007	EN 60079-1 : 2004 EN 61241-0 : 2006	EN 60079-11 : 2007 EN 61241-1 : 2004

AGENCY	TYPE OF PROTECTION	Ambient Temperature	Product Applicability*
ATEX- DEKRA 08ATEX0074	Nonincendive: II 3 G Ex nA [nL] IIC T4 II 3 D Ex tD A22 IP66 T90 oC	-40 ° C to +84 ° C	Pressure Temperature/ Discrete Inputs Corrosion High Level INPUT (HLAI) Universal I/O
00A1EA0074	Enclosure: IP66		
	Standards Used:		
	EN 60079-0 : 2006	EN 60079-15 : 2005	EN 61241-0 : 2006
	EN 61241-1 : 2004		

AGENCY	TYPE OF PROTECTION	Ambient Temperature	Product Applicability*
	Intrinsically Safe: Ex ia IIB T4 Ex tD A20 IP66 T90 oC	-40 ° C to +70 °C: Battery -40 ° C to +80 ° C : DC Supply	Pressure Temperature/ Discrete Inputs Corrosion High Level INPUT (HLAI) Universal I/O
IECEX- CSA	Flameproof: Ex d [ia] IIB T4 Ex tD A21 IP66 T90 oC	-40 ° C to +70 ° C: Battery -40 ° C to +80 ° C : DC Supply	Pressure Corrosion High Level INPUT (HLAI) Universal I/O
09.0001X	Nonincendive: Ex nA [nL] IIC T4 Ex tD A22 IP66 T90 oC	-40 ° C to +84 ° C: Battery -40 ° C to +80 ° C : DC Supply	Pressure Temperature/ Discrete Inputs Corrosion High Level INPUT (HLAI) Universal I/O
	Enclosure: IP66	-	
	Standards Used: IEC 60079-0 : 2004 IEC 60079-26 : 2007 IEC 60079-15 : 2001	IEC 60079-1 : 2003 IEC 61241-0 : 1999	IEC 60079-11 : 1999 IEC 61241-1 : 1999

AGENCY	TYPE OF PROTECTION	Ambient Temperature	Product Applicability*
	Intrinsically Safe: Ex ia IIB T4 Ex tD A20 IP66 T90 oC	-40 ° C to +70 ° C: Battery -40 ° C to +80 ° C : DC Supply	Pressure Temperature/ Discrete Inputs Corrosion High Level INPUT (HLAI) Universal I/O
SAEx	Flameproof: Ex d [ia] IIB T4 Ex tD A21 IP66 T90 oC	-40 ° C to +70 ° C: Battery -40 ° C to +80 ° C : DC Supply	Pressure Corrosion High Level INPUT (HLAI) Universal I/O
S/09-036X (South Africa)	Nonincendive: Ex nA [nL] IIC T4 Ex tD A22 IP66 T90 oC	-40 ° C to +84 ° C: Battery -40 ° C to +80 ° C : DC Supply	Pressure Temperature/ Discrete Inputs Corrosion High Level INPUT (HLAI) Universal I/O
	Enclosure: IP66	· · ·	
	Standards Used:           SANS (IEC) 60079-0 : 2005           IEC 60079-1 : 2003           IEC 61241-0 : 1999	SANS (IEC) 60079-15 : 2006 IEC 60079-11 : 1999 IEC 61241-1 : 1999	ARP 0108 (Edition 1.1) IEC 60079-26 : 2007

AGENCY	TYPE OF PROTECTION		Ambient Temperature	Product Applicability*
	Intrinsically Safe:		-40 °C to +70 °C: Battery	Pressure
	Ex ia IIB T4 Ga		-40 °C to +80 °C:DC Supply	Temperature/ Discrete Inputs
				Corrosion
				High Level INPUT (HLAI)
				Universal I/O
	Flameproof:		-40 °C to +70 °C: Battery	Pressure
	Ex d [ia] IIB T4		-40 °C to +80 °C : DC	Corrosion
	Ex tb IIIC T90 oC IP66		Supply	High Level INPUT (HLAI)
INMETRO**				Universal I/O
NCC 11.0331	Nonincendive:		-40 °C to +84 °C: Battery	Pressure
Х	Ex nA [ic] IIC T4		-40 °C to +80 °C : DC	Temperature/ Discrete
(BRAZIL)	Ex tc IIIC T90 oC IP66		Supply	Inputs
				Corrosion
				High Level INPUT (HLAI)
				Universal I/O
	Enclosure: IP66			
	Standards Used:			
	ABNT NBR IEC 60079-0:2008	ABN	F NBR IEC 60079-1:2009	ABNT NBR IEC 60079-11:2009
	IEC 60079-15:2010		F NBR IEC 60079-	IEC 60079-31:2008
	ABNT NBR IEC 60529:2009	a 26:2008		IEC 61241-1 : 1999

\*See individual Product manuals as defined on page iii for exact Models

\*\* At time of Printing Certification was pending.

### **Electrical Data:**

### Battery

Two in series connected (D size) Lithium batteries, type 5930 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.

For Output parameters associated with Temperature/ Discrete Inputs, Corrosion, High Level INPUT (HLAI) or Universal I/O, see Agency Certification drawings in Section 6.

# 1.4 Conditions of Certification

### **IECEx Conditions of Certification**

Parts of the antenna are non-conducting and the area of the non-conducting part exceeds the maximum permissible areas for Category II 1 G (Zone 0) according to IEC 60079-0. Therefore when the antenna is used within a potentially explosive atmosphere, appropriate measures must be taken to prevent electrostatic discharge.

Impact and friction hazards need to be considered according to IEC 600079-0 when the transmitter that is exposed to the exterior atmosphere is made of light metal alloys, and used in Category ll 1 G (Zone 0).

### ATEX Conditions for Safe Use

Because the enclosure of the XYR 6000 Wireless Transmitter is made from aluminum, if it is mounted in

an area where the use of category 1G apparatus is required, it must be installed such that even in the event of rare incidents, ignition sources due to impact and friction sparks are excluded.

Special precautions shall be taken to prevent the surface of the antenna of the XYR 6000 Wireless Transmitter from being electrostatically charged.

# 1.5 Maximum Working Pressure:

See individual Product manuals as defined on page iii

# 1.6 Radio Certifications

Agency	Certification	Description
	FCC ID: S5750016517	The XYR 6000 Wireless Transmitters comply with part 15 of the FCC rules. Operation is subject to the following two conditions.
Federal Communications Commission (FCC)	or	(1) this device may not cause harmful interference, and
	FCC ID: S5750025034	(2) this device must accept any interference received, including interference that may cause undesired operation.
Industry Canada (IC)	IC: 573I-50016517 or IC: 5731-50025034	The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF fields in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's web site www.hc-sc.gc.ca/rpb.
<b>€€</b> <sup>0981</sup>	0981	For radio equipment used in the European Union in accordance with the R&TTE Directive the CE Mark and the notified body (NB) identification number is used when the NB is involved in the conformity assessment procedure. The alert sign must be used when a restriction on use (output power limit by a country at certain frequencies) applies to the equipment and must follow the CE marking.
ARANATEL Agência Nacional de Telecomunicações		Radio certification by the Brazilian National telecom Agency.

### **Table 1-3 Radio Certifications**

### Radio Frequency (RF) statement

To comply with FCC's and Industry Canada's RF exposure requirements, the following antenna installation and device operating configurations must be satisfied.

- Remote Point-to-Multi-Point antenna(s) for this unit must be fixed and mounted on outdoor permanent structures with a separation distance between the antenna(s) of greater than 20cm and a separation distance of at least 20cm from all persons.
- Remote Fixed Point-to-Point antenna(s) for this unit must be fixed and mounted on outdoor permanent structures with a separation distance between the antenna(s) of greater than 20cm and a separation distance of at least 100cm from all persons.
- Furthermore, when using integral antenna(s) the XYR 6000 Wireless Transmitter unit must not be colocated with any other antenna or transmitter device and have a separation distance of at least 20cm from all persons.

### **European Union restriction**

The XYR 6000 Wireless Transmitters are in conformity with the applicable portions of the ETSI standards as required by the R&TTE Directive 1999/5/EC.

### Restriction

France restricts outdoor use to 10mW (10dBm) EIRP in the frequency range of 2,454-2,483.5 MHz. Installations in France must limit EIRP to 10dBm, for operating modes utilizing frequencies in the range of 2,454 - 2,483.5 MHz.

#### Japanese Restrictions

For locations in Japan the transmitter power is restricted to 12.14dBm/Mhz {(32mW (15.4 dBm)] maximum EIRP including the antenna.

# 2. Transmitter Mounting

# 2.1 Weight

Table 2-	I Weights
----------	-----------

Transmitter Model	Weight
STDW1xx	11 lbs (5 kg)
STDW9xx	
STGW9x4	
STRW1xD	
STRW9xD	
STAW14L	7 lbs (3.2 kg)
STRW14A	
STRW1xG	
STRW9xG	
STGW1xL	
STGW9xL	
STFW1xF	17 lbs (7.7 kg) for 2" 150# flanged head
STFW9xF	21 lbs (9.5 kg) for 3" 150# flanged head
STFW1xx	23 to 36 lbs (10.5 kg to 16.4 kg) depending on flange size
STFW9xx	
STIW400	6 lbs (2.7 kg)
STTW40x	
STTW500	
STIW600	
STUW700	
STUW701	
STTW8x0	
CETW6000M	

Note: 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)

## 2.2 Dimensions

For Flange and Remote Seal transmitter dimensions, obtain appropriate installation drawing using Installation drawing number tables on page 16 as a guide.

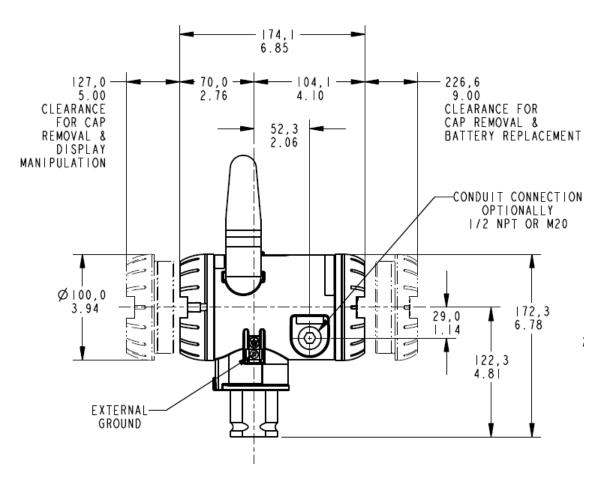


Figure 2-1 Temperature/DI/Multi DI/HLAI/Corrosion transmitter dimensions

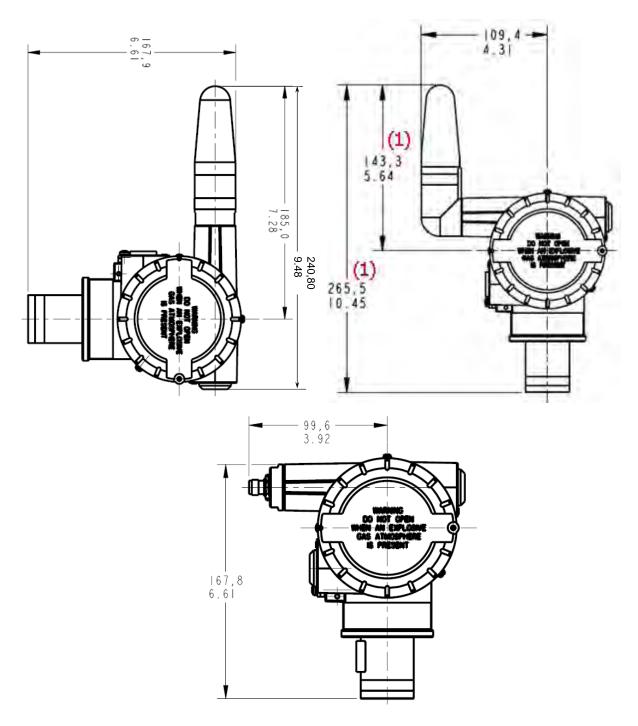


Figure 2-2 Universal I/O Temperature/DI/Multi DI/HLAI/Corrosion antenna dimensions

(1) Add 139,0mm/5.47 in. To these dimensions for transmitters supplied with 4 dBi Antenna option.

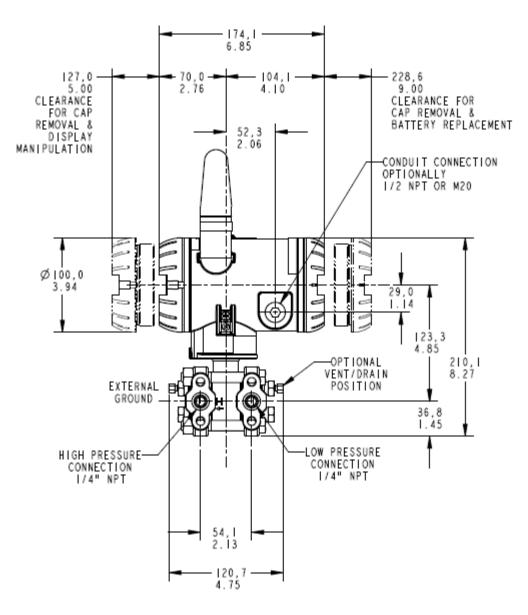
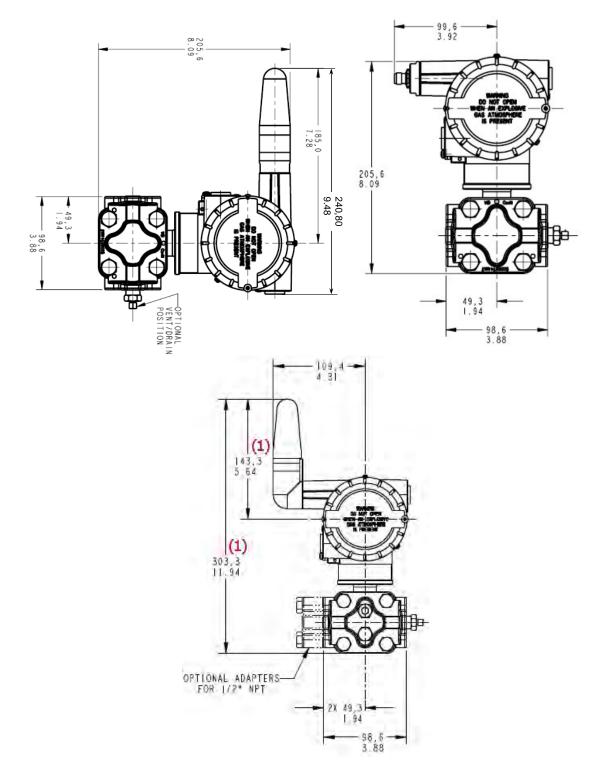


Figure 2-3 DP/DHGP Pressure transmitter dimensions



### Figure 2-4 DP/DHGP Pressure antenna dimensions

(1) Add 139,0mm/5.47 in. To these dimensions for transmitters supplied with 4 dBi Antenna option.

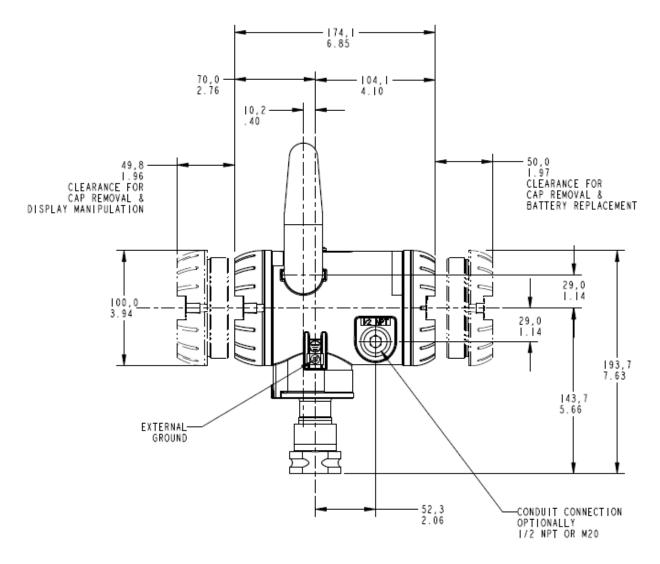


Figure 2-5 GP/AP Pressure transmitter dimensions

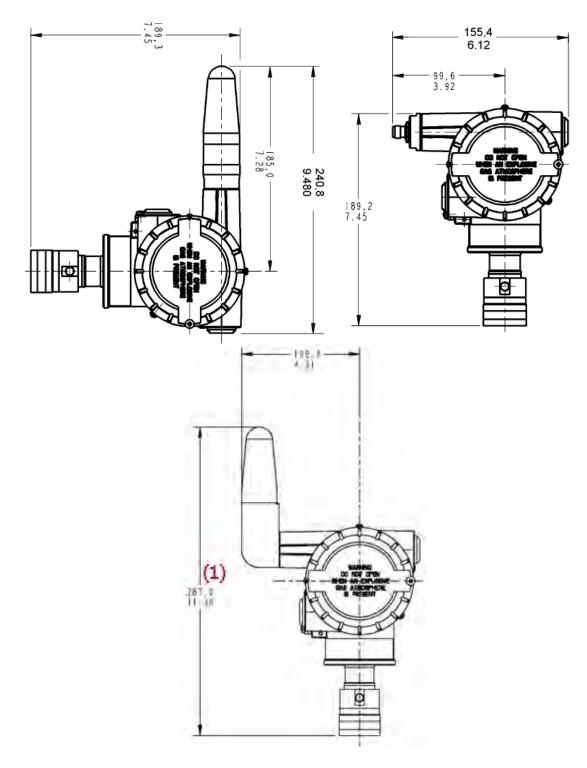


Figure 2-6 GP/AP Pressure antenna dimensions

(1) Add 139,0mm/5.47 in. To these dimensions for transmitters supplied with 4 dBi Antenna option.

## 2.3 Installation drawing number tables

### Table 2-2 Installation Drawing Numbers for Flush, Extended and Pseudo Flanged Models

STFW1xx, STFW9xx, Flush Flange	50060110
STFW1xx, STFW9xx Extended Flange	50060111
STFW1xF, STFW9xF Pseudo Flange	50060112

### Table 2-3 Installation Drawing Numbers for DP Remote Seal Models STRW1xD, STRW9xD

	With 1 Remote Seal on High Side	With 1 Remote Seal on Low Side	With 2 Remote Seals
Flat Bracket Horizontal	50060115	50060119	50060829
Flat Bracket Vertical	50060116	50060120	50060830
Angle Bracket Horizontal	50060117	50060121	50060831
Angle Bracket Vertical	50060118	50060122	50060832

# Table 2-4 Installation Drawing Numbers for GP/AP Remote Seal Models STRW1xG, STRW9xG, STRW1xA, STRW9xA

Flat Bracket Horizontal	50060131
Flat Bracket Vertical	50060132
Angle Bracket Horizontal	50060133
Angle Bracket Vertical	50060134

# 2.4 Transmitter location

### Pressure models

Process	Suggested location	Explanation
Gases	Above the gas line	The condensate drains away from the transmitter.
Liquids	<ul> <li>Below but close to the elevation of the process connection.</li> <li>Level with or above the process connection.</li> </ul>	<ul> <li>This minimizes the static head effect of the condensate.</li> <li>This requires a siphon to protect the transmitter from process steam. The siphon retains water as a "fill fluid."</li> </ul>

### Table 2-5 Pressure models

# 2.5 Conduit / Cable Entries



THIS PRODUCT IS SUPPLIED WITH PLASTIC DUST PLUGS IN THE CONDUIT/CABLE GLAND ENTRIES. IT IS THE USERS RESPONSIBILITY TO PROVIDE CABLE GLANDS, ADAPTORS AND/OR BLANKING PLUGS SUITABLE FOR THE ENVIRONMENT IN WHICH THIS PRODUCT IS INSTALLED. WHEN INSTALLED IN A HAZARDOUS LOCATION THE CABLE GLANDS, ADAPTORS AND/OR BLANKING PLUGS SHALL ADDITIONALLY BE SUITABLE FOR THE HAZARDOUS LOCATION, THE PRODUCT CERTIFICATION AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION FOR THE INSTALLATION

### Summary

### Table 2-6 Conduit entry plugs and cable glands for your XYR 6000 transmitter.

Factory Part No.	Description	Environmental rating	Ambient	Hazardous Location Certification
50000547-001	M20 Conduit Plug	IP66-68, 4X, 6P	–40 – 85⁰C –40 – 185ºF	ATEX 🐼 II 2 GD EEx de IIC
50021832-002	1/2 NPT Conduit Plug	IP66-68, 4/4X, 6/6P	–40 – 85⁰C –40 – 185⁰F	ATEX 🐼 <b>II 2 GD</b> EEx d IIC; CSAcus CL I, Zone 1, Ex/AEx d IIC; CL I, Div 1 & 2, GP ABCD; CL II, Div 1 & 2, GP EFG; CL III, Div 1 & 2
50023232-001	M20 Cable Gland	IP68	-40 - 100°C -40 - 212°F	
50023212-001	1/2 NPT Cable Gland	IP68	-40 - 100°C -40 - 212°F	

# 2.6 Bracket mounting

### Attach bracket to pipe

Figure 2-7 shows some commonly used bracket and pipe orientations. Not all possibilities are shown; you can use any bracket (flat or angle) and orientation (parallel or transverse) to get the desired transmitter positioning.

Position bracket on 2-inch (50.8 mm) pipe and install "U" bolt around pipe and through holes in bracket. Secure with nuts and lockwashers provided.

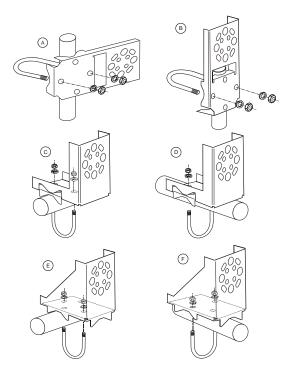


Figure 2-7 Common bracket orientations

#### Attach transmitter to bracket

Align appropriate mounting holes in transmitter with holes in bracket and secure the transmitter to the bracket with bolts and washers provided.

If the meter body is hexagonal, you must use the additional bracket supplied. If meter body is round, discard the bracket.

Transmitter type	Attachment to bracket	Example
DP type with double-ended process heads and/or remote seals	Alternate mounting holes in end of heads.	
Dual head GP	Mounting holes in end of process head	
In-line GP and AP (LGP model)	Smaller "U" bolt.	
Temperature/DI	Smaller "U" bolt.	
Multiple DI	Smaller "U" bolt.	
High Level Analog Input	Smaller "U" bolt.	
Corrosion	Smaller "U" bolt.	
Universal I/O	Smaller "U" bolt.	Ŭ,

Table	2-7	Bracket	Attacment
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In flush flange, extended flange and pseudo flange pressure transmitter applications, the transmitter bolts directly to the process connection (tank spud) and no bracket is required.

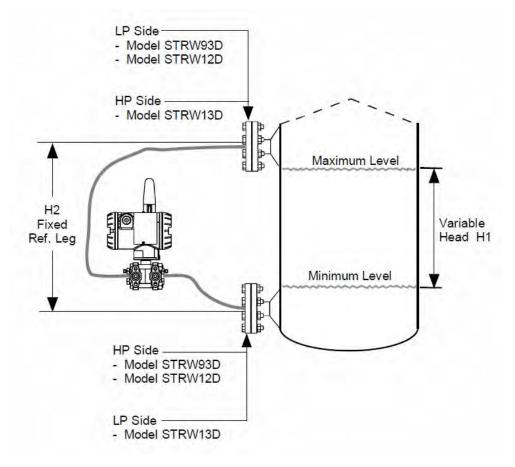
# 2.7 Remote Seal Transmitter Mounting

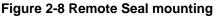
XYR 6000 transmitters furnished with remote diaphragm seals (Model STRWxxx) can be mounted using the optional mounting brackets. Follow the guidelines below to determine the mounting position of the transmitter for the given secondary capillary fill fluid.

IF the Capillary (Secondary) Fill is:	THEN mount the Pressure Transmitter:
Silicone DC® 200	no greater than 22 feet (6.7 meters) above the lower remote seal.
Silicone DC® 704	no greater than 19 feet (5.8 meters) above the lower remote seal.
Chlorotrifluorethylene (CTFE)	no greater than 11 feet (3.4 meters) above the lower remote seal.

Table 2-8 Remote Seal	Transmitter Mounting
-----------------------	----------------------

Note: The combination of tank vacuum and capillary head effect should not exceed 9 psi (300 mmHg) absolute





## 2.8 Rotate transmitter housing

You can rotate the transmitter for better viewing, access, or antenna position. Loosen set screw (see A in Figure 2-9) on outside neck of transmitter one full turn. Rotate transmitter housing up to 180 degrees in either direction to desired position.

**CAUTION** Do not rotate the housing past 180 degrees in any direction or you could damage the internal wiring.

Tighten set screw.

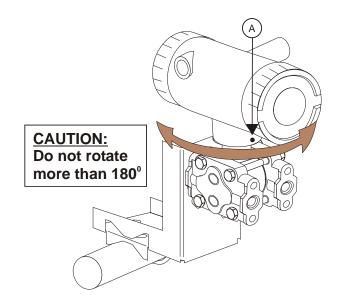


Figure 2-9 Rotating transmitter housing

### 2.9 Rotate display

If the transmitter's mounting is such that the display is not horizontal, you can rotate the display in 90 degree increments to provide horizontal viewing.

### **Tools required**

- #1 Phillips Screwdriver or 1/8" Slotted Screwdriver
- Torque Screwdriver
- 1.5 mm hex key

### Procedure



### WARNING

Risk of death or serious injury by explosion. Do not open transmitter enclosure when an explosive gas atmosphere is present.



### CAUTION

Take precautions against electrostatic discharge to prevent damaging the display/sensor module.

### Display adjustment

#### Step

Action

- 1 Honeywell recommends that the transmitter be removed from service and moved to a clean area before servicing.
- 2 Loosen the M3 locking set screw on the display end-cap. See item 1 in Figure 2-10. Unscrew and remove the end cap.
- 3 Loosen the two captive screws on the display/sensor module. See items 2 in Figure 2-10.
- 4 Rotate the display 90 or 180 degrees in either direction so the screws line up with the threaded holes. Do not rotate more than 180 degrees or you could damage the wires behind the display.
- 5 Re-attach the display's two captive screws. Tighten to 0,4 0,6 N-m (3.5 5.3 lb-in.).
- 6 Replace end cap and tighten M3 locking screw.

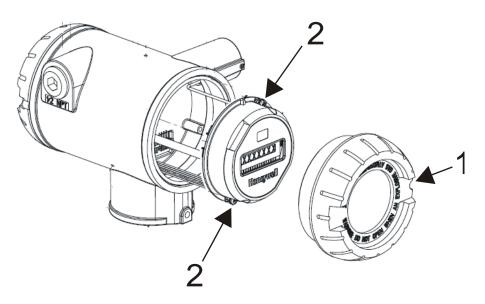


Figure 2-10 Display rotation

# 3. Process Insertion

### 3.1 Pressure models

### Piping

The actual piping arrangement will vary depending upon the process measurement requirements and the transmitter model. Except for flanged and remote diaphragm seal connections, process connections are made to ¼ inch or ½ inch NPT female connections in the process head of the transmitter's meter body. For example, a differential pressure transmitter comes with double ended process heads with ¼ inch NPT connections but they can be modified to accept ½ inch NPT through optional flange adapters. Some gauge pressure transmitters may have a ½ inch NPT connection which mounts directly to a process pipe.

The most common type of pipe used is  $\frac{1}{2}$  inch schedule 80 steel pipe. Many piping arrangements use a three-valve manifold to connect the process piping to the transmitter. A manifold makes it easy to install and remove or rezero a transmitter without interrupting the process. It also accommodates the installation of blow-down valves to clear debris from pressure lines to the transmitter.

Figure 3-1 shows a diagram of a typical piping arrangement using a 3-valve manifold and blow-down lines for a differential pressure transmitter being used to measure flow.

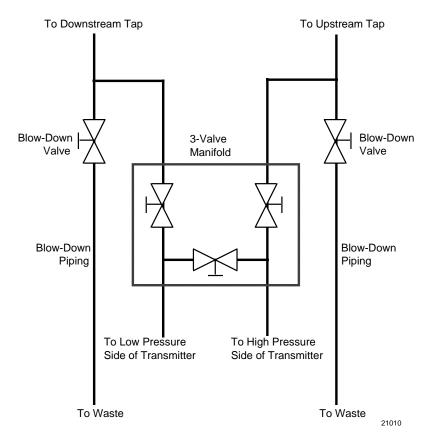
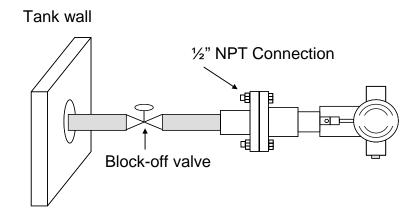
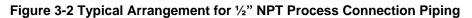


Figure 3-1 Typical 3-valve manifold and blow-down piping arrangement

Another piping arrangement uses a block-off valve and a tee connector in the process piping to the transmitter as shown in Figure 3-2.







### ATTENTION

For liquid or steam, the piping should slope a minimum of 25.4 mm (1 inch) per 305 mm (1 foot). Slope the piping down towards the transmitter if the transmitter is below the process connection so the bubbles may rise back into the piping through the liquid. If the transmitter is located above the process connection, the piping should rise vertically above the transmitter; then slope down towards the flowline with a vent valve at the high point. For gas measurement, use a condensate leg and drain at the low point (freeze protection may be required here).



### CAUTION

Property damage may result if operating temperature limits of transmitter are exceeded. Electronics housing must not exceed 85° C [185° F], meterbody temperature limit may be rated higher. Consult transmitter nameplate for meterbody temperature limits. To reduce the temperature of the process that comes into contact with the transmitter meter body, install impulse piping. As a general rule there is a 56 degree C drop (100 degrees F) in the temperature of the process for every foot (305 mm) of  $\frac{1}{2}$  inch uninsulated piping.

### **Process connections**

Transmitter Type	Process Connection	
Differential Pressure	Process heads with 1/4 inch NPT female connection	
	Flange adapters and manifolds with 1/2 inch female connection are optional	
Gauge Pressure	Process head with 1/2 inch NPT female connection	
Ū	In-line 1/2 inch NPT female connection	
	In-line ½ inch NPT male	
	9/16 High Pressure	
	DIN19213n	
	Process heads with ¼ inch NPT female connection	
	Flange adapters and manifolds with ½ inch female connections are optional	
Absolute Pressure	Process head with 1/2 inch NPT female connection	
	In-line 1/2-inch NPT male	
	9/16 High Pressure	
	DIN19213n	
Flush or Extended Flange Mount	ASME 2" 150# <sup>1</sup> Serrated-face flange with 4 holes 19 mm (3/4") diameter on 120,7 mm (4.75") bolt circle and an outside diameter of 150 mm (5.91")	
	ASME 2" 300# <sup>1</sup> Serrated-face flange with 8 holes 19 mm (3/4") diameter on 127 mm (5.00") bolt circle and an outside diameter of 165 mm (6.50")	
	ASME 3" 150# <sup>1</sup> Serrated-face flange with 4 holes 19 mm (3/4") diameter on 152,4 (6.00") bolt circle and an outside diameter of 190 mm (7.48")	
	ASME 3" 300# <sup>1</sup> Serrated-face flange with 8 holes 22 mm (7/8") diameter on 168,3 mm (6.63") bolt circle and an outside diameter of 210 mm (8.27")	
	ASME 4" 150# <sup>1</sup> Serrated-face flange with 8 holes 19 mm (3/4") diameter on 190,5 mm (7.48") bolt circle and an outside diameter of 230 mm (9.06")	
	ASME 4" 300# <sup>1</sup> Serrated-face flange with 8 holes 22 mm (7/8") diameter on 200 mm (7.87") bolt circle and an outside diameter of 255 mm (10.04")	
	DN 50 PN 40 <sup>2</sup> Serrated-face flange with 4 holes 18 mm (.71") diameter on a 125 mm (4.92") bolt circle and an outside diameter of 165 mm (6.50")	
	DN 80 PN 40 <sup>2</sup> Serrated-face flange with 8 holes 18 mm (.71") diameter on a 160 mm (6.30") bolt circle and an outside diameter of 200 mm (7.87")	
	DN 100 PN 40 <sup>2</sup> Serrated-face flange with 8 holes 22 mm (.87") diameter on a 190 mm (7.48") bolt circle and an outside diameter of 235 mm (9.25")	
Pseudo Flange Mount	ASME 2" 150# <sup>1</sup> Serrated-face flange with 4 holes 19 mm (3/4") diameter on 120,7 mm (4.75") bolt circle and an outside diameter of 150 mm (5.91")	
	ASME 3" 150# <sup>1</sup> Serrated-face flange with 4 holes 19 mm (3/4") diameter on 152,4 (6.00") bolt circle and an outside diameter of 190 mm (7.48")	
Remote Diaphragm Seals	See Model Selection Guide for description of available Flanged, Threaded, Chemical Tee, Saddle and Sanitary process connections.	

Table 3-1	Process	connections
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<sup>1</sup> Dimensions of bolt circle and serrated gasket face conform to ASME B 16.5

 $^{\rm 2}$  Dimensions of bolt circle and serrated gasket face conform to EN 1092

### **General piping guidelines**

When measuring fluids containing suspended solids, install permanent valves at regular intervals to blowdown piping.

Blow-down all lines on new installations with compressed air or steam and flush them with process fluids (where possible) before connecting these lines to the transmitter's meter body.

Be sure all the valves in the blow-down lines are closed tight after the initial blow-down procedure and each maintenance procedure after that.

Mount transmitter vertically to assure best accuracy. Position the spirit balance on pressure connection surface of AP body.

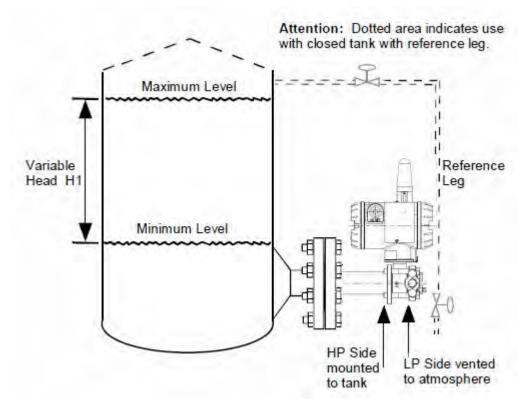


Figure 3-3 Flange Mounting

## **Temperature and Discrete Input models**

## Insert probe into process



#### **ATTENTION**

It is your responsibility to supply a suitable sealing method or gasket and mounting hardware for the probe's service conditions.

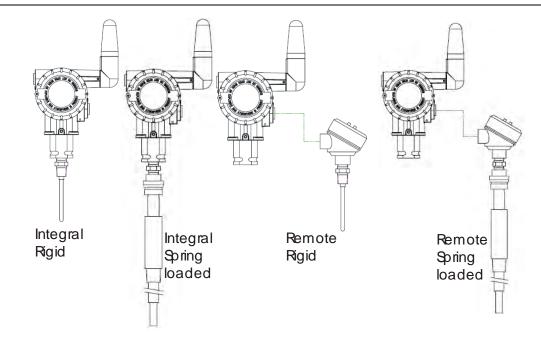


Figure 3-4 Temperature probes

### Integral probe wiring

The integral probe is pre-wired to the transmitter at the factory.

### Remote probe wiring

Step	Action
1	See Figure 3-4. Open the transmitter's rear end cap (opposite end from display) by loosening the M3 locking screw and unscrewing the end cap.
2	Open the cable gland (on right side below antenna). (Cable gland must be ordered as an option.)
3	Feed wiring (6 to 8 mm allowed diameter) through the cable gland and connect to terminal block. For terminal connections see info starting on page 55.
4	Plug battery connector into batteries. See page 47.
5	Close rear end cap and cable gland.
6	Tighten M3 locking screw on the rear end cap.

## 3.2 HLAI models

### **Connect wiring**

Step	Action
1	See Figure 3-5. Open the rear end cap (opposite end from display) by loosening the M3 locking screw and unscrewing the end cap.
2	Open the cable gland (on right side below antenna). (Cable gland must be ordered as an option.)
3	Feed wiring (allowed diameter 6 to 8 mm) from other transmitter through the cable gland and connect to terminal block using either voltage or current but not both. See Figure 3-6 or Figure 3-7. For hazardous locations see info starting on page 55.
4	Plug battery connector into batteries.
5	Close rear end cap and cable gland.
6	Tighten M3 locking screw on the rear end cap.

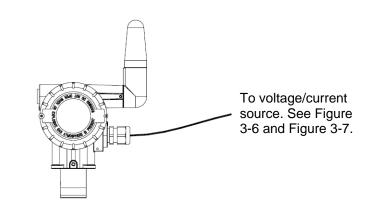
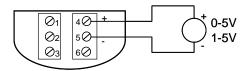


Figure 3-5 HLAI connection





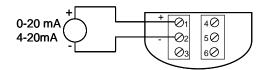


Figure 3-7 Current input wiring

## 3.3 Universal I/O

STUW700 - Three inputs (1-3) HLAI, (1-2) T/C, (1-2) Discrete Inputs

STUW 701 – Two inputs (1-2) HLAI, T/C, DI + One (1) Discrete Output

## **Connect wiring**

Step	Action
1	See Figure 3-8. Open the rear end cap (opposite end from display) by loosening the M3 locking screw and unscrewing the end cap.
2	Open the cable gland (on right side below antenna). (Cable gland must be ordered as an option.)
3	Feed wiring (allowed diameter 6 to 8 mm) from other transmitter through the cable gland and connect to terminal block using either voltage or current but not both. See wiring diagrams pages 30 and 31.
4	Plug battery connector into batteries.
5	Close rear end cap and cable gland.
6	Tighten M3 locking screw on the rear end cap.

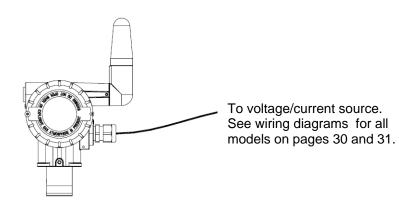
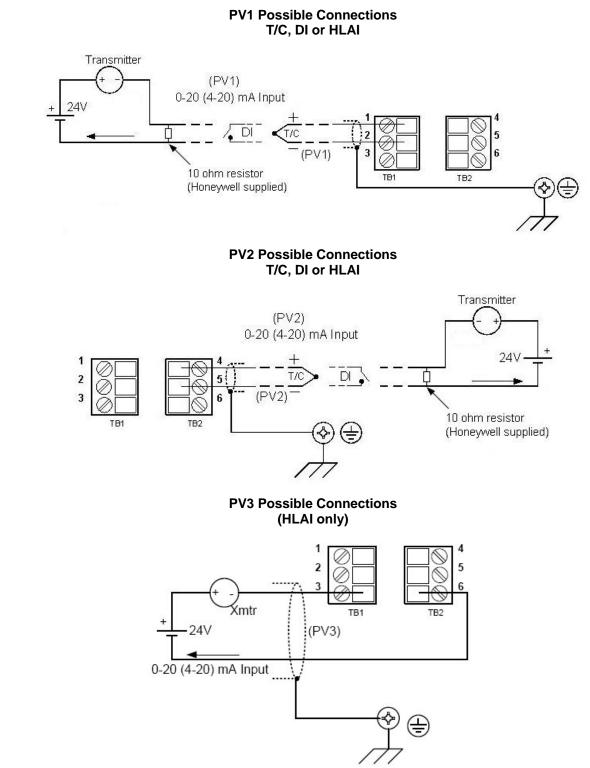
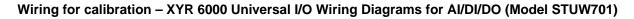


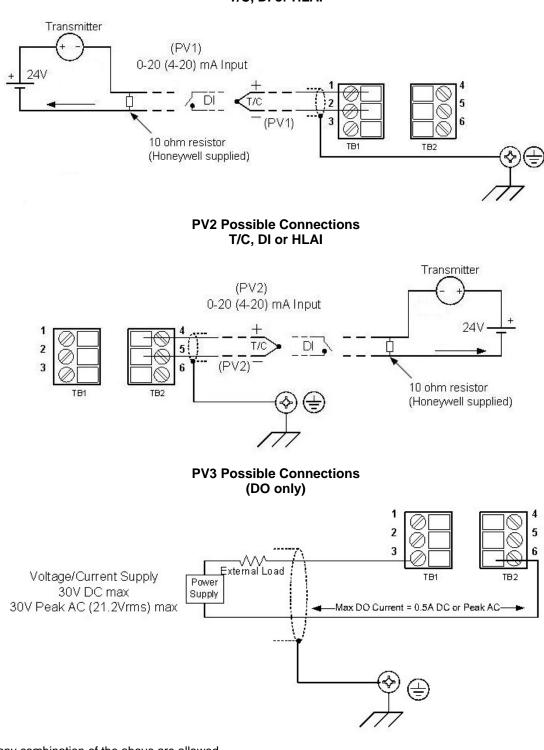
Figure 3-8 Universal I/O Connection



## Wiring for calibration – XYR6000 Universal I/O Wiring Diagrams for AI/DI (Model STUW700)

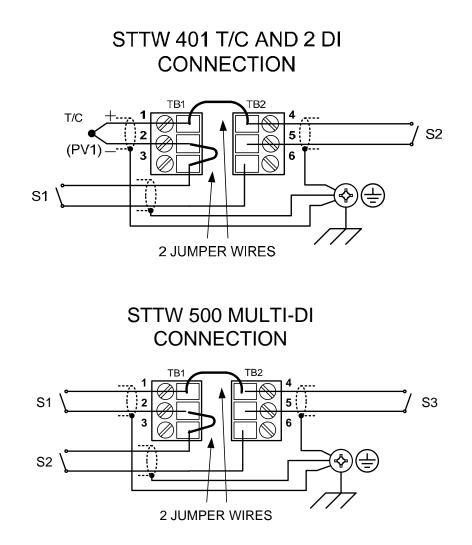
Note: any combination of the above are allowed. For example: PV1 is a DI, PV2 is 4-20mA, PV3 is 0-20mA. Or PV1 is 0-20mA, PV2 is a T/C, PV3 is 0-20mA





PV1 Possible Connections T/C, DI or HLAI

Note: any combination of the above are allowed. For example: PV1 is a DI, PV2 is 4-20mA, PV3 is DO. Or PV1 is 4-20mA, PV2 is a T/C, PV3 is DO



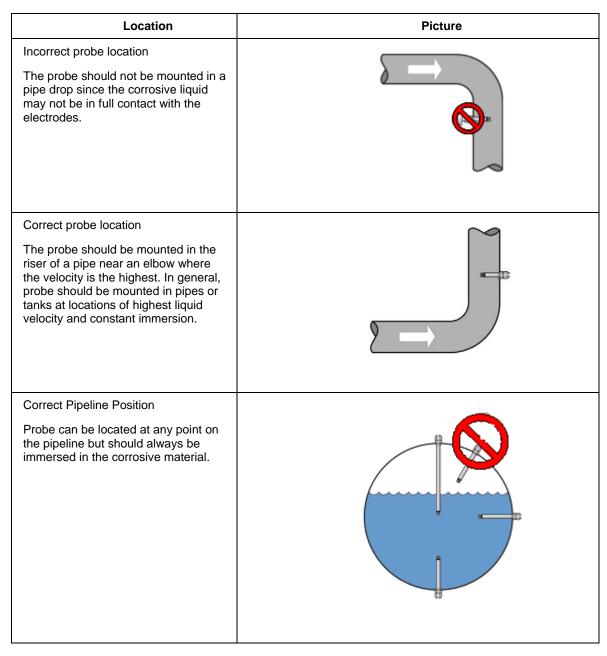
## NOTES:

- Shielded switch input cable is required for EMC conformity and is recommended for all remote switch installations. The shield shall be grounded at the transmitter end only. If the shield is grounded at the switch location, the shield shall not be connected at the transmitter end.
- 2. Jumper wires the same gauge and stranding as the switch wires are required for all switch input combinations.
- 3. Switches shall be isolated from each other and from earth ground to avoid common mode noise problems.

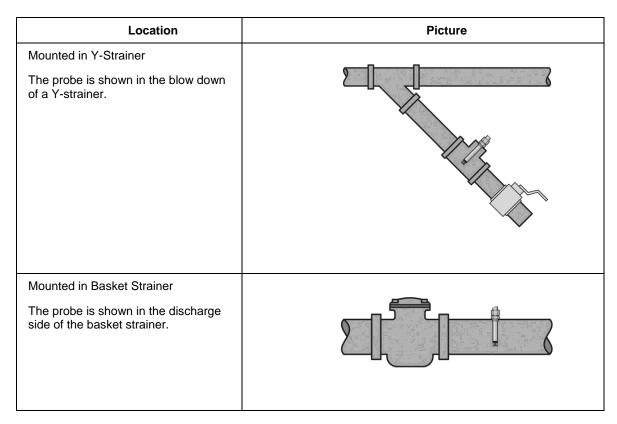
## 3.4 Corrosion models

#### **Probe mounting locations**

The corrosion probe must be installed in a location that is most susceptible to corrosion. In most cases, corrosion tends to occur where water is trapped or stagnant. However, it can also accelerate at the bend of the pipe or where corrosion has occurred previously, but is accelerated by high flow or turbulence.



Location	Picture
Located in Tee Probe can be located at any point on the pipeline but should always be immersed in the corrosive material.	
Located in Bypass Loop Probe should be located downstream of a control valve for best performance and can also be located in the deadleg portion of a by-pass. Note that the probe located in the by- pass leg should be mounted before the valve for best performance. This guarantees the electrodes will always be immersed in the corrosive material.	
Mounted with Different Electrodes Installing with different electrode materials on the suction side of the pump will ensure monitoring of the pump impeller and the pipe.	
Installed in a Condensate Flash Tank A condensate flash tank is also a good application.	



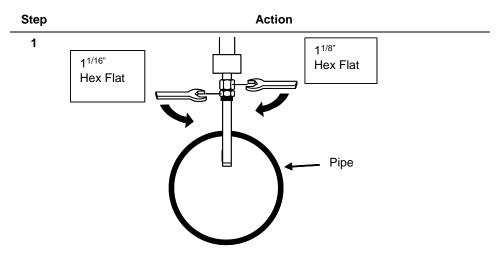
The electrodes should be selected to reflect the same metal properties as the piping or other components that might be susceptible to corrosion. For example, in applications where the pipe is made of stainless steel and the water pump's impeller is made of carbon steel, the impeller will corrode faster than the pipe. In this case it is advisable to select the electrodes to be the same material as the pump's impeller.

#### **Probe installation**



#### WARNING

If the pipe or vessel into which the probe is to be inserted is under pressure and/or contains any hazardous substance, such as steam, caustic solutions, acids, toxins or other substances specified by OSHA as physical or health hazards, the pipe or vessel must first be depressurized and any hazardous substance purged there from, and appropriate lockout/tagout procedures observed in accordance with Section 1910.147 of the OSHA Regulations, before the probe can be installed. Failure to follow these procedures may result in serious injury or death.



Some probes are supplied with an adjustable, compression NPT fitting (e.g. Swagelok). With this fitting, follow this tightening sequence to ensure a tight seal.

- a) The Swagelok fitting should be held onto place with a plastic zip-tie around the probe body. The zip-tie should be removed.
- b) Determine the depth that the probe should extend into the pipe.
- c) Tighten the larger upper nut until the tubing will not rotate freely by hand.
- d) Make a mark on the nut. This mark will serve as a reference as the 6 o'clock position.
- e) While holding fitting body steady, tighten the large upper nut 1 + 1/4 turns to the 9 o'clock position.
- f) This tightening sequence will crimp the internal ring onto the probe body and should lock the fitting in place now.
- g) Tighten the lower nut onto the pipe nipple or access point.

For fixed type probes (without the adjustable compression fitting) only the 1 1/16 hex nut needs to be tightened and the safety bracket is not required.

2 Ensure the flow rate of the process fluid does not exceed 20 feet per second (fps). Stronger flow might damage probes with three finger electrodes and interfere with the reading. If the flow rate exceeds the recommendation, a different probe style may be required.

## **Connect wiring**

Step	Action
1	See Figure 3-9. Open the transmitter's rear end cap (opposite end from display).
2	Open the cable gland (on right side below antenna). (Cable gland must be ordered as an option.)
3	Feed probe wiring through the cable gland and connect to terminal block. See Figure 3-9. For terminal connections see info starting on page 55.
4	Plug battery connector into batteries.
5	Close rear end cap and cable gland.

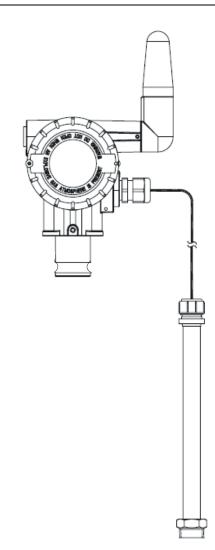


Figure 3-9 Corrosion transmitter with remote probe

# 4. Antenna adjustment and mounting

## 4.1 Requirements

#### **Radio installation requirements**



## ATTENTION

Professional Installation is required to insure conformity with Federal Communications Commission (FCC) in the USA, Industry Canada (IC) in Canada and the Radio and Telecommunications Terminal Equipment Directive, 1999/5/EC (R&TTE), in the European Union (EU).

Professional installation is required for the selection and installation of approved antennas and setup of the maximum allowable radiated power from the XYR 6000 Wireless Transmitter as configured for the particular installation site.

The antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm (8 inches) from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

For remote antenna, see antenna installation requirements to satisfy FCC RF exposure requirements.



## ATTENTION

Federal Communications Commission (FCC):

The XYR 6000 Wireless Transmitters comply with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Industry Canada (IC):

The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF fields in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's web site www.hc-sc.gc.ca/rpb.

## 4.2 Integral antenna



#### WARNING

POTENTIAL ELECTROSTATIC CHARGING HAZARD

The integrally mounted antenna shroud is made of Teflon® and has a surface resistance greater than 1Gohm per square. When the XYR 6000 transmitter is installed in potentially hazardous locations care should be taken not to electrostatically charge the surface of the antenna shroud by rubbing the surface with a cloth, or cleaning the surface with a solvent. If electrostatically charged, discharge of the antenna shroud to a person or a tool could possibly ignite a surrounding hazardous atmosphere.



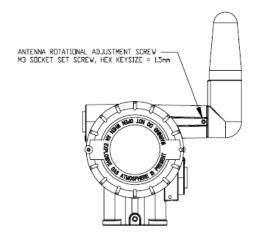


Figure 4-1 Elbow antenna adjustment

(2 dBi Antenna Configuration Shown)

If your model has the integral elbow antenna you can adjust it to improve reception. Typically, pointed straight up gives best performance but your installation may vary. Loosen the 1.5mm set screw located near the antenna base. Rotate antenna for best reception. Do not rotate antenna more than 180 degrees either direction or you could damage internal wiring. Tighten set screw.

Straight

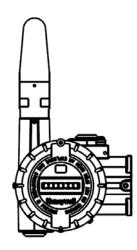


Figure 4-2 Integral straight antenna

(Straight Antenna ONLY available in 2 dBi configuration)

If your model has the integral straight antenna (Figure 4-2) you can adjust its position by rotating the transmitter housing. (See page 20.) Typically, pointed straight up gives best performance but your installation may vary.

## 4.3 Remote antenna

#### **Outdoor installation warnings**



### WARNING

LIVES MAY BE AT RISK! Carefully observe these instructions and any special instructions that are included with the equipment you are installing.



## WARNING

Contacting power lines can be lethal.

Look over the site before beginning any installation, and anticipate possible hazards, especially these:

Make sure no power lines are anywhere where possible contact can be made. Antennas, masts, towers, guy wires or cables may lean or fall and contact these lines. People may be injured or killed if they are touching or holding any part of equipment when it contacts electric lines. Make sure there is NO possibility that equipment or personnel can come in contact directly or indirectly with power lines.

Assume all overhead lines are power lines.

The horizontal distance from a tower, mast or antenna to the nearest power line should be at least twice the total length of the mast/antenna combination. This will ensure that the mast will not contact power if it falls either during installation or later.



## WARNING

To avoid falling, use safe procedures when working at heights above ground.

Select equipment locations that will allow safe, simple equipment installation.

Don't work alone. A friend or co-worker can save your life if an accident happens.

Use approved non-conducting ladders and other safety equipment. Make sure all equipment is in good repair.

If a tower or mast begins falling, don't attempt to catch it. Stand back and let it fall.

If anything such as a wire or mast does come in contact with a power line, DON'T TOUCH IT OR ATTEMPT TO MOVE IT. Instead, save your life by calling the power company.

Don't attempt to erect antennas or towers on windy days.



### WARNING

MAKE SURE ALL TOWERS AND MASTS ARE SECURELY GROUNDED, AND ELECTRICAL CABLES CONNECTED TO ANTENNAS HAVE LIGHTNING ARRESTORS. This will help prevent fire damage or human injury in case of lightning, static build-up, or short circuit within equipment connected to the antenna.

The base of the antenna mast or tower must be connected directly to the building protective ground or to one or more approved grounding rods, using 1 OAWG ground wire and corrosion-resistant connectors.

Refer to the National Electrical Code for grounding details.

Lightning arrestors for antenna feed coaxial cables are available from HyperLink Technologies, Inc.



## WARNING

If a person comes in contact with electrical power, and cannot move:

DON'T TOUCH THAT PERSON, OR YOU MAY BE ELECTROCUTED.

Use a non-conductive dry board, stick or rope to push or drag them so they no longer are in contact with electrical power.

Once they are no longer contacting electrical power, administer CPR if you are certified, and make sure that emergency medical aid has been requested.

#### **Choosing a Mounting Location**

The location of the antenna is important. Objects such as metal columns, walls, etc. will reduce efficiency. Best performance is achieved when antennas for both Multinodes and XYR 6000 Transmitters (Leaf Nodes) are mounted at the same height and in a direct line of sight with no obstructions. If this is not possible and reception is poor, you should try different mounting positions to optimize reception.

Antennas should be mounted clear of any obstructions to the sides of the radiating element. If the mounting location for an omnidirectional antenna is on the side of a building or tower, then the antenna pattern will be degraded on the building or tower side.

#### Site Selection

Before attempting to install your antenna, think where you can best place the antenna for safety and performance.

Follow these steps to determine a safe distance from wires, power lines, and trees.

Step Action	
1	Measure the height of your antenna.
2	Add this length to the length of your tower or mast and then double this total for the minimum recommended safe distance.

Generally speaking, the higher your antenna is above the ground, the better it performs. Good practice is to install your antenna about 5 to 10 feet (1.5 to 3 meters) above the roof line and away from all power lines and obstructions. If possible, find a mounting place directly above your wireless device so that the lead-in cable can be as direct as possible.

#### Mounting the Antenna

Antennas are provided with a mast mounting kit consisting of a mounting bracket and two U-bolt clamps. This kit allows you to mount the antenna to masts with outside diameters (O.D.) from 1.25 inches (3.2 centimeters) to 2 inches (5.1 centimeters). Honeywell recommends that a 1.5 inch (3.8 centimeter) or larger tubing mast be used.

Omnidirectional antennas are vertically polarized. It is very important to mount the antenna in a vertical (not leaning) position for optimal performance.

Follow these steps to mount the antenna on a mast.

Step	Action
1	Assemble your new antenna on the ground at the installation site. See the instructions on the following pages for your type of antenna.
2	Attach the antenna to the mast and connect its coaxial cable while you are on the ground, using the mounting kit provided with the antenna. Tighten cables by hand only; do not use tools or you could overtighten. After the cable is attached to the antenna, make sure that the connections are sealed (if outdoors) the prevent moisture and other weathering elements from effecting performance. Honeywell recommends using a weathering tape (such as Coax-Seal <sup>®</sup> ) for outdoor connections. Silicon sealant or electrical tape is not recommended for sealing out door connections.
3	Using tie-wraps (cable ties), secure the coax cable to the mast, using a tie-wrap every ten to twelve inches (25 to 30 cm).
4	Follow standard strain relief practice when installing the antenna cable. Avoid excessive strain, bending, kinks, or crushing (stepping on or placing any weight on cable) before, during or after the coax cable is secured in its final position.
5	Make sure the mast does not fall the "wrong way" should you lose control as you raise or take down the mast. Use a durable non-conductive rope. Have an assistant tend to the rope; ready to pull the mast clear of any hazards (such as power lines) should it begin to fall.
6	If the installation will use guy wires:
	Install guy anchor bolts.
	Estimate the length of guy wire and cut it before raising the mast.
	Attach guy wires to a mast using guy rings.
7	Carefully connect the antenna and mast assembly to its mounting bracket and tighten the clamp bolts.
	In the case of a guyed installation, you must have at least one assistant to hold the mast upright while the guy wires are attached and tightened to the anchor bolts.
8	Attach the provided self-adhering "DANGER" label at eye level on the mast.
9	Install ground rods to remove any static electricity buildup and connect a ground wire to the mast and ground rod. Use ground rods designed for that purpose; do not use a spare piece of pipe.

Step	Action
10	When attaching the coax cable to the XYR 6000, it is recommended that a drip loop with a radius of at least 12 inches (30 cm) be formed close to the XYR 6000. This will minimize ice and water buildup on the transmitter itself. Tighten cables by hand only; do not use tools or you could overtighten.
	To lightning arrestor & antenna 12"/30cm Drip loop

## **Directional mounting procedure**

Step	Action
1	Secure mast mounting bracket to mast as shown using 2 U-bolts and supplied hardware.
2	Attach antenna to mast mounting bracket as shown using supplied hardware.
3	Adjust antenna to desired tilt and lock into place using the antenna tilt adjustment nut.



Figure 4-3 Directional antenna mounting

#### **Omnidirectional mounting procedure**

Step	Action
1	Secure mast mounting bracket to mast as shown using 2 U-bolts and supplied hardware.
2	Remove antenna mounting bolt and washer from antenna base.
3	Insert antenna into mounting bracket and secure with washer and antenna mounting bolt. Do not overtighten.
4	Any drain holes in the antenna base must be kept clear for proper operation.



Figure 4-4 Omnidirection antenna mounting

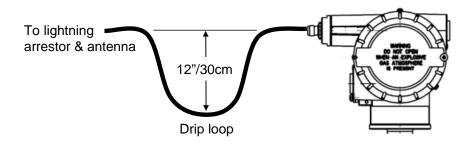
#### Grounding the antenna

Follow these guidelines to ground the antenna in accordance with national electrical code instructions.

Step	Action
1	Use No. 10 AWG copper or No. 8 or larger copper-clad steel or bronze wire as ground wires for both mast and lead-in. Securely clamp the wire to the bottom of the mast.
2	Secure the lead-in wire to a lightning arrestor and mast ground wire to the building with stand- off insulators spaced from 4 feet (1.2 meters) to 8 feet (1.8 meters) apart.

Step	Action	
3	Using coaxial cable, connect the antenna base to the transmitter's remote antenna connector (located at top right as you face the transmitter display). Antenna cable shield is bonded to earth ground via either the transmitter earth ground connection and/or by the lightning arrestor earth ground connection. The lightning arrestor must be bonded to earth ground in order to function properly. Tighten cables by hand only; do not use tools or you could overtighten.	
	See pages Error! Bookmark not defined., Error! Bookmark not defined., Error! Bookmark not defined. and Error! Bookmark not defined. for cable types and connection information.	
4	If the coax cable is to enter a building, then the lightning arrestor should be mounted as close as possible to where the lead-in wire enters the building. The lightning arrestor sold by Honeywell features a bulkhead N-Female connector with a rubber "O"-ring seal which can be used for mounting through an enclosure wall. The lightning arrestor can also be mounted using the included stainless steel mounting bracket. Both connector ports of the lightning arrestor provide equal protection no matter which way it is installed. Either port can face the antenna and either port can face the Transmitter.	
5	Drill a hole in the building's wall as close as possible to the equipment to which you will connect the lead-in cable.	
	There may be wires in the wall. Before drilling check that the area is clear of any obstructions or other hazards.	

6 Pull the cable through the hole and form a drip loop on the outside close to where the cable enters the building. The drip loop should have a radius of at least 12 inches (30 cm).



- 7 Thoroughly waterproof the lead-in area.
- 8 Connect the lead-in cable to the XYR 6000 Transmitter. Tighten cables by hand only; do not use tools or you could overtighten.

# 5. Start up

## 5.1 Battery Power Option

#### Connect batteries

## WARNING

- Risk of death or serious injury from explosion or fire.
- If IS Battery Pack, Honeywell 50047517-501, has been installed in the Wireless Transmitter, the transmitter enclosure maybe opened when an explosive gas atmosphere is present. Otherwise, do not open transmitter enclosure when and explosive gas atmosphere is present.
  - When not in use the Battery Pack must be stored in a non Hazardous Area
- Do not change batteries in an explosive gas atmosphere.
- The batteries used in this device may present a risk of fire or chemical burn if mistreated. Do not recharge, disassemble, heat above 100°C (212°F), or incinerate.
- When installing batteries, do not snag the battery terminal on the clip or the battery may be damaged. Do not apply excessive force.
  - Do not drop. Dropping the battery may cause damage. If a battery is dropped, do not install the dropped battery into the transmitter. Dispose of dropped battery promptly per local regulations or per the battery manufacturer's recommendations.



## ATTENTION

Both batteries must be the same model from the same manufacturer. Mixing old and new batteries or different manufacturers is not permitted.

Use only the following 3.6V lithium thionyl chloride (Li-SOCl2) batteries (nonrechargeable), size D. No other batteries are approved for use in XYR 6000 Wireless Transmitters.

- Xeno Energy XL-205F
- Eagle Picher PT-2300H
- Tadiran TL-5930/s
- Tadiran GmbH, SL-2780
- Honeywell p/n 50026010-501 (Two 3.6V lithium thionyl chloride batteries)
- Honeywell p/n 50026010-502 (Four 3.6V lithium thionyl chloride batteries)
- Honeywell p/n 50026010-503 (Ten 3.6V lithium thionyl chloride batteries)

These instructions are divided into two procedures for:

- <u>IS Battery Holder, 50025288-502</u>
- <u>IS Battery Pack</u>, 50047517-501

Tools

- #1 Phillips Screwdriver or 1/8" Slotted Screwdriver
- required
- Torque Screwdriver
- 1.5 mm hex key
- It is the User/Installer's responsibility to install the XYR 6000 Wireless Procedure Transmitters in accordance with national and local code requirements.

### IS Battery Holder, 50025288-502

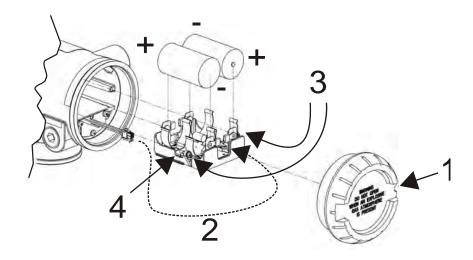


Figure 5-1: Battery assembly

#### Battery replacement procedure

#### Step

#### Action

- 1 Loosen the M3 locking set screw on the battery end-cap (opposite end from display). See item 1 in Figure 5-1. Unscrew and remove the end cap.
- 2 Using thumb and forefinger, squeeze the battery connector at top and bottom to disengage the locking mechanism, then pull to disconnect. See item 2 in Figure 5-1.
- **3** Loosen the two battery holder retaining screws (closest to the batteries). See item 3 in Figure 5-1. The screws are captive.
- 4 Pull the battery holder out of the transmitter.
- 5 Remove the old batteries from the battery holder. If needed, pry out the batteries by using a slotted screwdriver as a lever in the holder's side slots. See item 4 in Figure 5-1.
- 6 Install batteries as follows to avoid snagging the battery terminal on the clip and damaging the battery.

Align the new battery with the clips and angle the positive end of the battery into the positive battery terminal clip. Using a thumb and forefinger pull the negative terminal clip outward and push down on the battery until fully seated in the clips. Do not apply excessive force when pushing battery down.

Repeat this process for the second battery.

7 Insert the battery holder into the transmitter. Reattach the screws and tighten to 0.4 - 0.6 N-M (3.5 - 5.3 Lb-in).

Re-connect battery connector.

Honeywell recommends lubricating the end cap O-ring with a Silicone Grease such as Dow Corning #55 or equivalent before replacing the end cap.

- 8 Screw the end cap back on and tighten the M3 locking screw.
- **9** Dispose of used battery promptly per local regulations or the battery manufacturer's recommendations. Keep away from children. Do not disassemble and do not dispose of in fire.

### IS Battery Pack, 50047517-501

#### **IS Battery Pack replacement procedure**

#### Step

2

Action

1 Follow steps 1-4, as above

## WARNING

DO NOT ASSEMBLE/DISASSEMBLE WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT

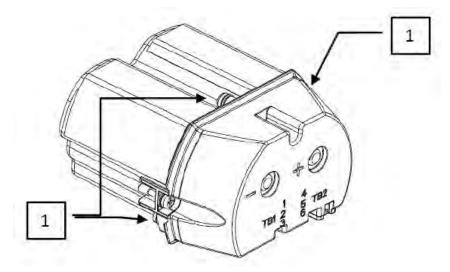


Figure 5-2: IS Battery Pack

- **3** Remove top of battery pack by using a #1 Philips or 1/8" slotted screwdriver for the screws identified as #1 in Figure 5-2.
- 4 Remove the spent batteries and dispose of them promptly according to local regulations of the battery manufacturer's recommendations.
- 5 Install the batteries following the polarity as noted on the lid
- 6 Re-install top of the battery pack and tighten screws
- 7 Insert the Battery pack into the transmitter. Re-attach the screws as indicated in Figure 5-1, item 3, to 0.4 to 0.6 N-M (3.5 5.3 Lb-in).

Reconnect the Battery Pack connector

Honeywell recommends lubricating the end cap threads with a silicone grease such as Dow Corning #55 or equivalent before replacing the end cap

8 Screw the cap back on and tighten the M3 locking screw

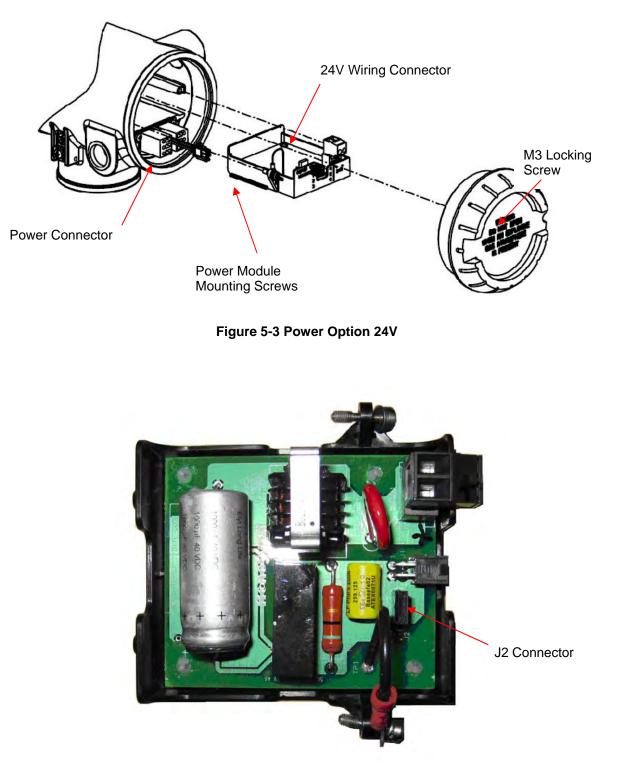


Figure 5-4 External 24V Power Module

## 24 Vdc Power Supply Option (DC) System Diagram

(Ordinary Non-Hazardous Locations)

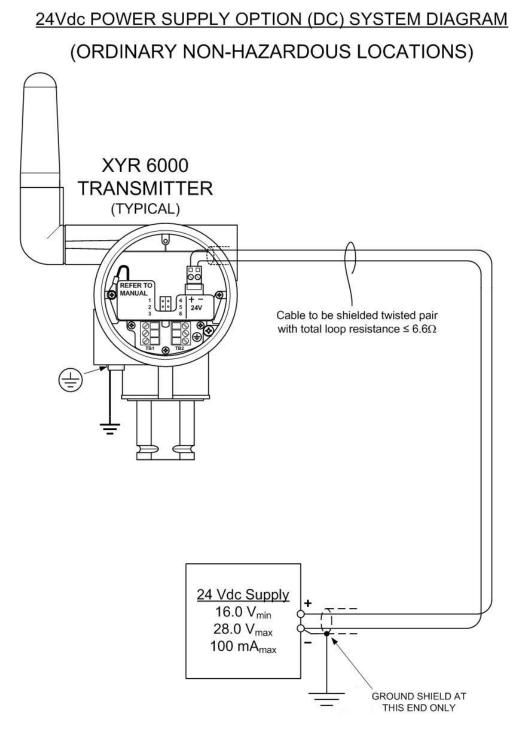


Figure 5-5 Power Supply 24 Vdc Option (DC) System Diagram

## 5.2 Display sequence

After power up, the transmitter does a brief self-test of the LCD display. Then it proceeds to Power-On Message, which is the model name of the transmitter. The name is displayed for 2 seconds after which the transmitter displays the process variables and associated status.

## 5.3 Provisioning

Before the transmitter can be configured it must be unlocked with a security key so it can join the network. Use the Provisioning Device Pocket PC software to receive security keys from the Key Server manager, then aim the Pocket PC at the transmitter and transmit a key.

Transmitters in the OneWireless Network with R210 release software can be provisioned using over-theair provisioning.

The Wireless Device Manager (WDM) provisions the access points, and the access points that are enabled to function as provisioning devices can then provision the transmitters. To enable the over-the-air provisioning capability, you must first enable this feature in the Onewireless User Interface. For more information, please reference the OW R210 Wireless Device Manager User's Guide (OW-CC0020).

See Getting Started with Honeywell OneWireless Solutions for more information.

# 6. Certification Installation Requirements

# 6.1 Certification Drawings

Use the following drawings and accompanying notes and text for hazardous locations. Any deviation from the installation requirements could void the certification. For non-hazardous locations you can use the same drawings without the accompanying notes and text.

### EC Declaration of Conformity

EC Declaration of Conformity National International Inc. Honeywell International Inc. Honeywell Iteld Solutions S12 Virginia Drive Fort Washington, PA 19034 United States of America To which this declaration relates, is in conformity with the provisions of the European Community Directives, including the latest amendments as shown on the attached schedule. Assumption of conformity is based on the application of the harmonized standards and when applicable and required, a European Community notified body certification, as shown in the attache schedule.	2			Honeywe
PRODUCT:         XYR 6000 Wireless Transmitters         MANUFACTURE:         Honeywell International Inc.         Honeywell Field Solutions         512 Virginia Drive         Fort Washington, PA 19034         United States of America         To which this declaration relates, is in conformity with the provisions of the European Community         Directives, including the latest amendments as shown on the attached schedule.         Assumption of conformity is based on the application of the harmonized standards and when applicable and required, a European Community notified body certification, as shown in the attached schedule.         Mature:       Over Murphy         Product Safety and Approvals Engineer         16 February 2012	E	C Declaratio	n of Conf	ormity
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### Schedule

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#### CE Honeywell Schedule 50061463 Issue B1 Flame-Proof: EC-TYPE Certificate: KEMA 08ATEX0062 X Protection: Intrinsically Safe, "d" and Dust tD Standard Year Title EN 60079-0 2006 Apparatus for Explosive Gas Atmospheres - General Requirements Electrical Apparatus for Explosive Atmospheres - Part 15: Equipment EN 60079-1 2004 protection by type of protection "n" Electrical apparatus for use in the presence of combustible dust - Part 0: EN 61241-0 2007 General requirements Electrical apparatus for use in the presence of combustible dust - Part 1: EN 61241-1 2004 Protection by enclosures "tD" **Production Quality Assurance Notification** DEKRA Certification Inc. (Notified body Number: 0344) Ultrechtseweg 310 6812 AR Arnhem The Netherlands Non -Sparking:

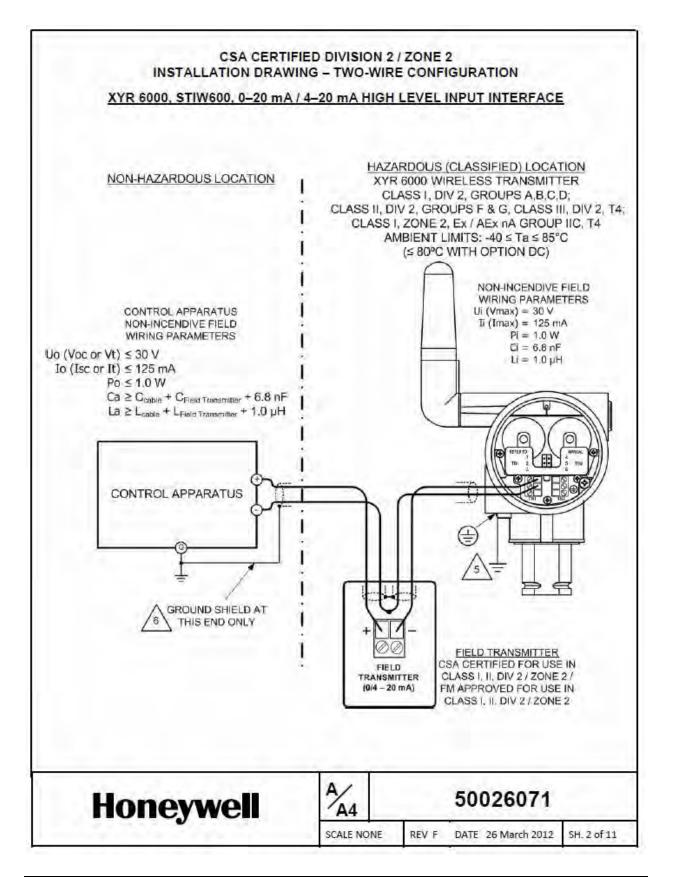
#### EC-TYPE Certificate: KEMA 08ATEX0074

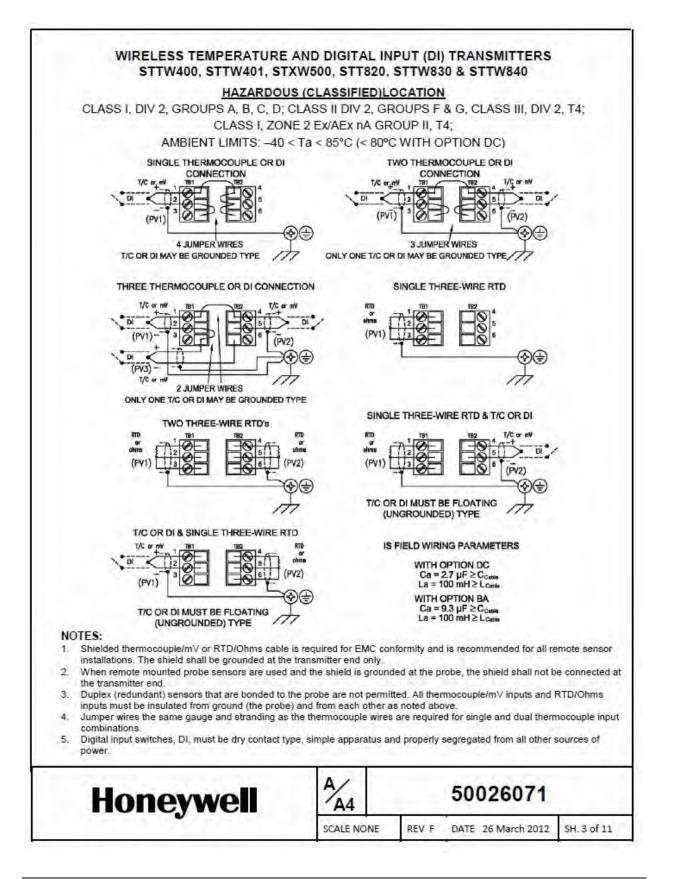
Protection: Non Sparking, Zone 2, "n" and Dust tD

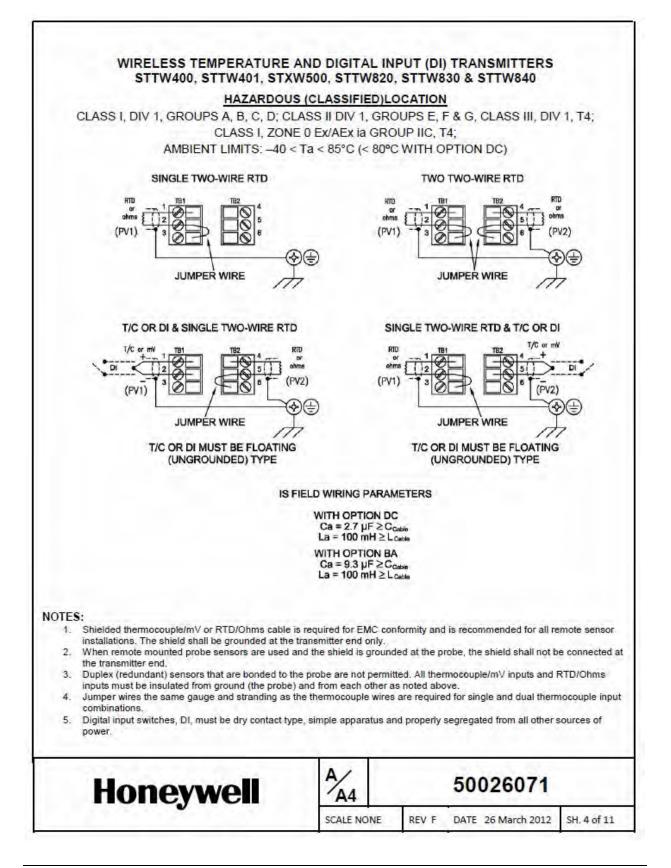
Standard	Year	Title
EN 60079-0	2006	Apparatus for Explosive Gas Atmospheres – General Requirements
EN 60079-15	2005	Electrical Apparatus for Explosive Atmospheres – Part 15: Equipment protection by type of protection "n"
EN 61241-0	2007	Electrical apparatus for use in the presence of combustible dust – Part 0: General requirements
EN 61241-1	2004	Electrical apparatus for use in the presence of combustible dust – Part 1: Protection by enclosures "tD"

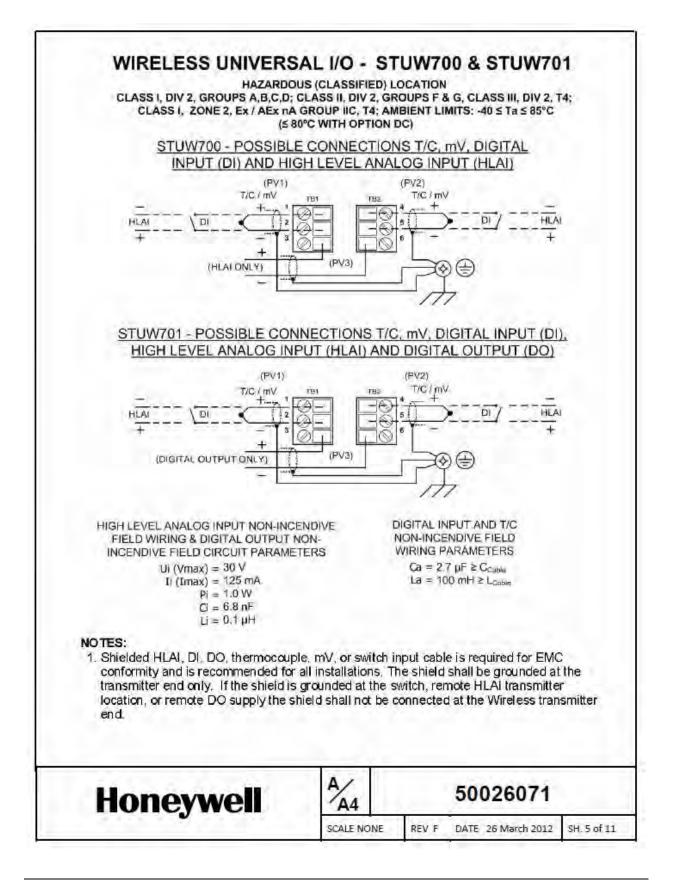
## **CSA Installation Drawings**

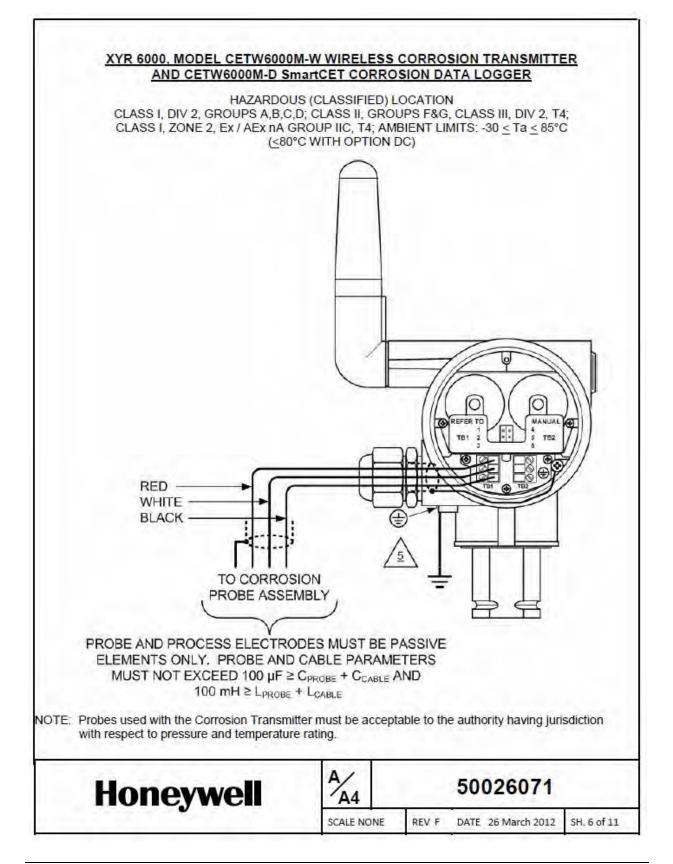
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The following models may be supplied with internal battery power, or externally supplied 24Vdc only when connected per the following system diagram.

NOTE: XYR 6000 ambient limits with 24V Power Supply are -40°C to +80°C.

STDW974 STGW94L STGW97L STGW98L STGW99L	Series 900 Wireless Transmitter, Dual Head Gage Pressure (GP) Series 900 Wireless Transmitter, Differential Pressure (DP)	0-500 psi / 0-35 bar 0-3000 psi / 0-210 bar 0-400" H <sub>2</sub> O / 0-1000 mbar 0-100 psi / 0-7 bar 0-3000 psi / 0-210 bar	
STDW924 STDW930 STDW974 STGW94L STGW97L STGW98L STGW99L	Series 900 Wireless Transmitter,	0-3000 psi / 0-210 bar 0-400" H <sub>2</sub> O / 0-1000 mbar 0-100 psi / 0-7 bar	
STDW930 STDW974 STGW94L STGW97L STGW98L STGW99L		0-100 psi / 0-7 bar	
STGW94L STGW97L STGW98L			
STGW98L STGW99L	Differential Pressure (DP)	0-3000 psi / 0-210 bar	
STGW97L STGW98L STGW99L			
STGW97L STGW98L STGW99L		0-500 psi / 0-35 bar	
STGW98L STGW99L		0-3000 psi / 0-210 bar	
STGW99L	- Series 900 Wireless Transmitter,	0-6000 psi / 0-415 bar	
STAW/9/1	- In-Line Gage & Absolute Pressure	0-10,000 psig / 0-690 bar	
		0-500 psi / 0-35 barA	
STFW924	Fl	0- 400" H <sub>2</sub> O/ 0- 1000 mbar Compound	
C	Flanged Series 900 Wireless – Pressure Transmitter	Characterized	
STFW932		0- 100 psi/ 0- 7 bar Compound Characterized	
STRW93D	Series 900 Wireless Transmitter,	0-2700" H <sub>2</sub> O/ 0- 7 bar Compound	
0770141010	Dual Pressure & Gage Pressure	Characterized	
STRW94G	Remote Seals	0- 500 psi/ 0- 35 bar	
STFW92F	In-Line Flanged Series 900	0- 400" H <sub>2</sub> O/ 0- 1000 mbar	
STFW93F	Wireless Transmitter	0- 100 psi/ 0- 7 bar	
STDW120	Line Street Street Street	0- 400" H <sub>2</sub> O/ 0- 1000 mbar	
STDW125	Series 100 Wireless Transmitter,	0- 600" H <sub>2</sub> O/ 0- 1500 mbar	
STDW130	Differential Pressure (DP)	0- 100 psi/ 0- 7 bar	
STDW170		0- 3000 psi/ 0-210 bar	
STGW14L	and an arrest carrier of the set	0- 500 psi/ 0- 35 bar	
STGW17L	Series 100 Wireless Transmitter,	0- 3000 psi/ 0- 210 bar	
STGW18L	In-Line Gage Pressure	0- 6000 psi/ 0- 415 bar	
STGW19L		0- 10000 psi/ 0- 690 bar	
STAW14L	Series 100 Wireless Transmitter, In-Line Absolute Pressure	0- 500 psia/ 0- 35 barA	
STAW140	Series 100 Wireless Transmitter, Single Head Absolute Pressure	0- 500 psia/ 0- 35 barA	
STFW128		0- 400" H <sub>2</sub> O/ 0- 1000 mbar Compound Characterized	
STFW132	Flanged Series 100 Wireless	0- 100 psi/ 0- 7 bar Compound Characterized	
STFW12F	Pressure Transmitter	0- 400" H <sub>2</sub> O/ 0- 1000 mbar	
STFW13F		0- 100 psi/ 0- 7 bar	
STFW14F		0- 600" H <sub>2</sub> O/ 0- 1500 mbar	
STRW12D	in sector during	0- 400° H <sub>2</sub> O/ 0- 1000 mbar Compound Characterized	
STRW13D	Series 100 Wireless Transmitter,	0- 100 psi/ 0- 7 bar	
STRW14A	Dual Pressure, Gage Pressure and	0- 500 psia/ 0- 35 barA	
STRW14G	<ul> <li>Absolute Remote Seals</li> </ul>	0- 500 psi/ 0- 35 bar	
STRW17G		0- 100 psi/ 0- 7 bar	
and the second	110 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Transmitter Only with Remote Sensors:	
STTW400	Wireless Temperature Transmitter	3 T/C's, or 2 RTD's	

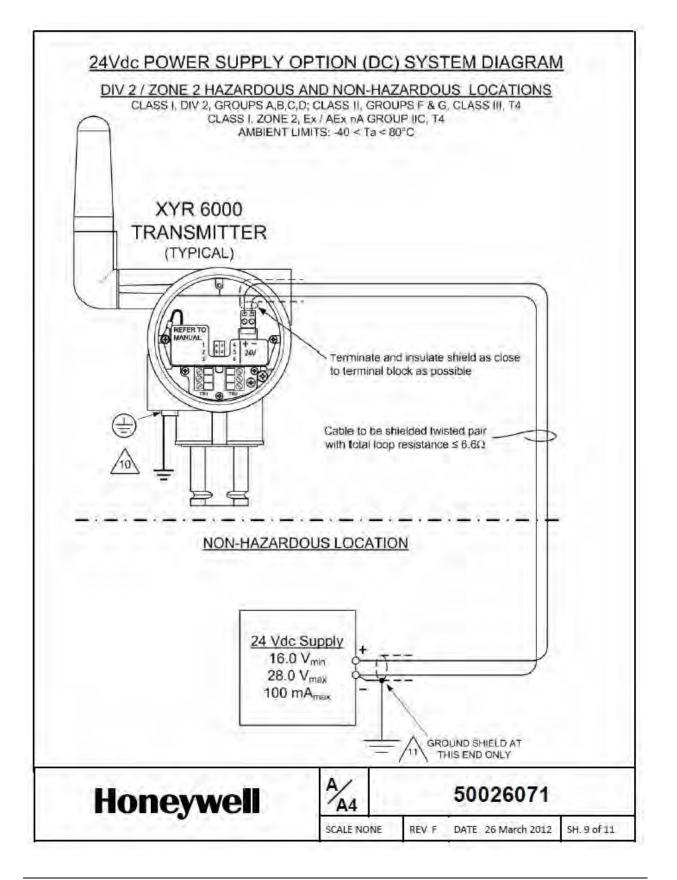
Model	1	Description
STTW401	Wireless Temperature and Digital Input Transmitter	Transmitter Only with Remote Sensors: 1 T/C AND 2 Digital Inputs
STXW500	Wireless Digital Input Transmitter	Three DI (Switch) Inputs
STUW700	Wireless Universal I/O Interface	Three Inputs: 4-20 mA Analog, T/C's, or DI (Switch)
STUW701	Wireless Universal I/O Interface	Two Inputs: 4-20 mA Analog, T/C or DI and One Digital Output (Solid State)
STTW820 STTW830 STTW840	Wireless Temperature Transmitter	Transmitter Integrally Mounted to Thermowel or Probe Assembly
STIW600	Wireless High Level Input Interface	4-20 mA Analog Input
CETW6000M-W	SmartCET Wireless Transmitter, Corrosion Monitoring	Millivolt Input from Remote Mounted Corrosion Probe
CETW6000M-D	SmartCET Corrosion Data Logger	Millivolt Input from Remote Mounted Corrosion Probe, Data via IrDA Port *

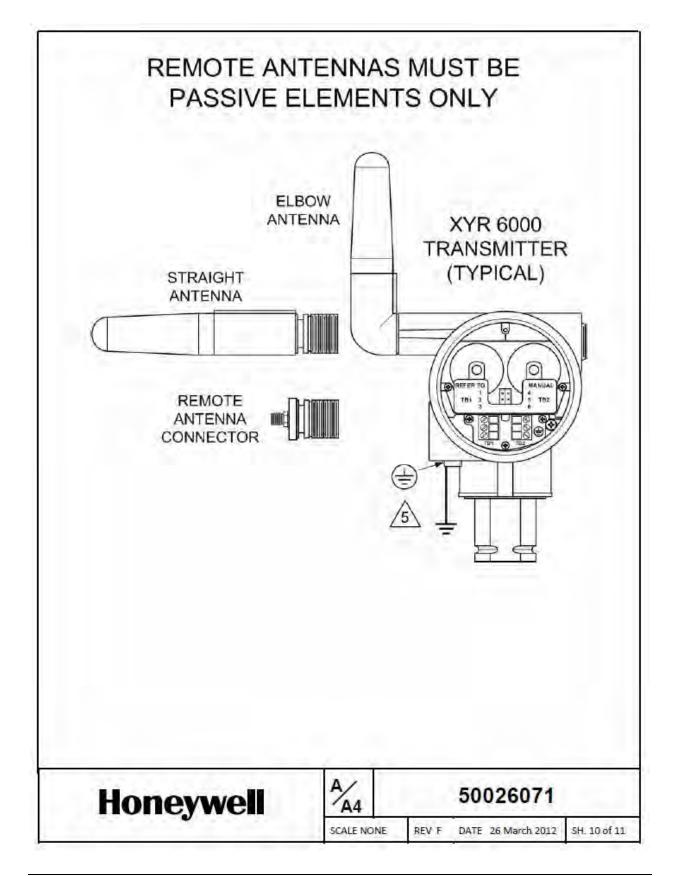
\* There is no Antenna for this version

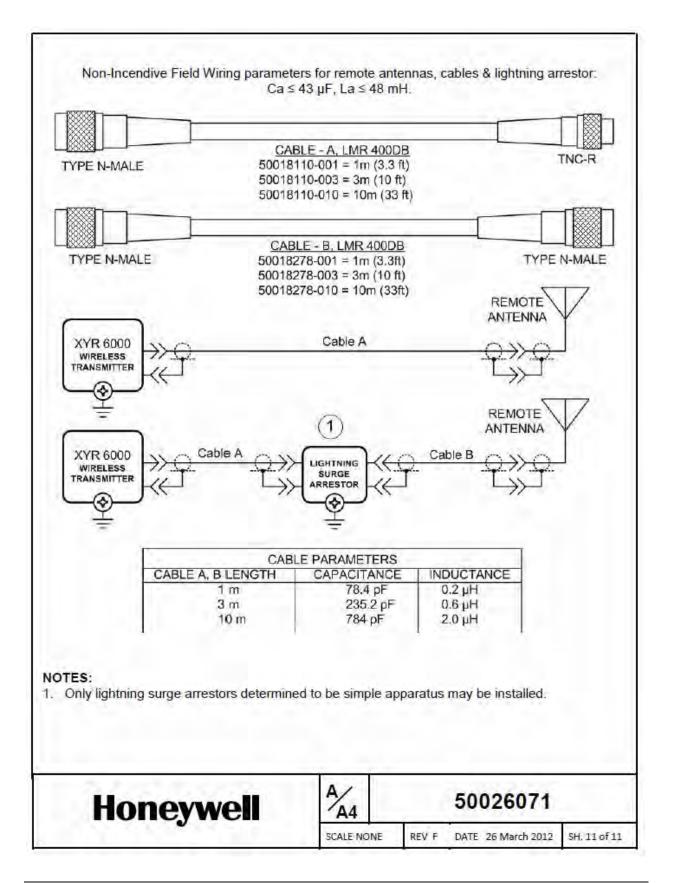
The above listed wireless transmitters may include an Omni-directional or unidirectional high-gain antenna. The high-gain antenna may be installed remote from the XYR 6000 with the cable length not to exceed 20m. The antenna cable shield shall be bonded to earth ground.

NON-INCENDIVE FIELD CIRCUIT PARAMETERS for remote antennas, cables & lightning arrestor: Ca = 43  $\mu$ F, La = 0.1 mH.

Honeywell	A/A4	50026071	







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## XYR 6000 WIRELESS TRANSMITTERS CSA CERTIFIED & FM APPROVED DIVISION 1/ ZONE 0 INSTALLATION CONTROL DRAWING

#### NOTES:

	iny sale installauon she	in permaccordance w	un une canadian	Electrical Code (CEC	c), part I, Section 18 for
Canada,	ANSI/NFPA 70, NEC®	Articles 504 and 505	for the USA, and	ANSI/ISA RP12.06.0	)1.

 CSA or FM ENTITY approved apparatus shall be installed in accordance with the manufacturer's Intrinsic Safety Control Drawing or shall be Simple Apparatus. Simple Apparatus are devices that will neither generate nor store more than 1.2V, 0.1A, 25mW, or 20µJ, such as switches, thermocouples, and RTDs.

3. The Intrinsic Safety ENTITY concept allows the interconnection of two ENTITY Approved Intrinsically safe devices with ENTITY parameters not specifically examined in combination as a system when: Uo or Voc (or Vt in the USA) ≤ Ui or Vmax, Io or Isc (or It in the USA) ≤ Ii or Imax, Ca or Co ≥ Ci + Ccable, La or Lo ≥ Li + Lcable, Po ≤ Pi. Where two separate barrier channels are required, one dual-channel or two single-channel barriers may be used, where in either case, both channels have been Certified for use together with combined entity parameters that meet the above equations.

- System Parameters: XYR 6000 and Field Transmitter Vmax ≥ Voc or Uo, Imax ≥ Isc or Io; XYR 6000 Ci + Field Transmitter Ci + Ccable ≤ Control Apparatus Ca,
  - XYR 6000 Li + Field Transmitter Li + Lcable ≤ Control Apparatus La.
- When the electrical parameters of the cable are unknown, the following values may be used: Capacitance 197pF/m (60 pF/ft), Inductance – 0.66µH/m (0.020 µH/ft).
- For Class II and Class III installations where rigid metal conduit is not used, seal cable entries against dust and fibers using a NRTL listed cable gland fitting.
- 7. Control equipment that is connected to Associated apparatus must not use or generate more than 250 V.
- Associated apparatus must be CSA Certified under the ENTITY Concept in Canada and FM ENTITY listed in the USA. Associated apparatus may be installed in a Class I, Division 2 Hazardous (Classified) location if so approved.
- Non-Galvanically isolated apparatus (grounded Zener Barriers) must be connected to a suitable ground electrode per NFPA 70, Article 504 and 505 in the USA and CEC Part I, Section 10 in Canada. The resistance of the ground path must be less than 1.0 ohm.
- 10. Transmitters shall have the enclosure bonded to ground in accordance with CEC part I, Section 18-074, Bonding in hazardous locations, and Rule 10-814

Shielded two-wire cable is required for EMC conformity and is recommended for all installations. The 4-20 mA loop shield shall be grounded at the supply (barrier) end to the barrier ground bus only when grounded Zener barriers are used. The 4-20 mA loop shield shall be grounded at the transmitter end only when galvanically isolated barriers are used.

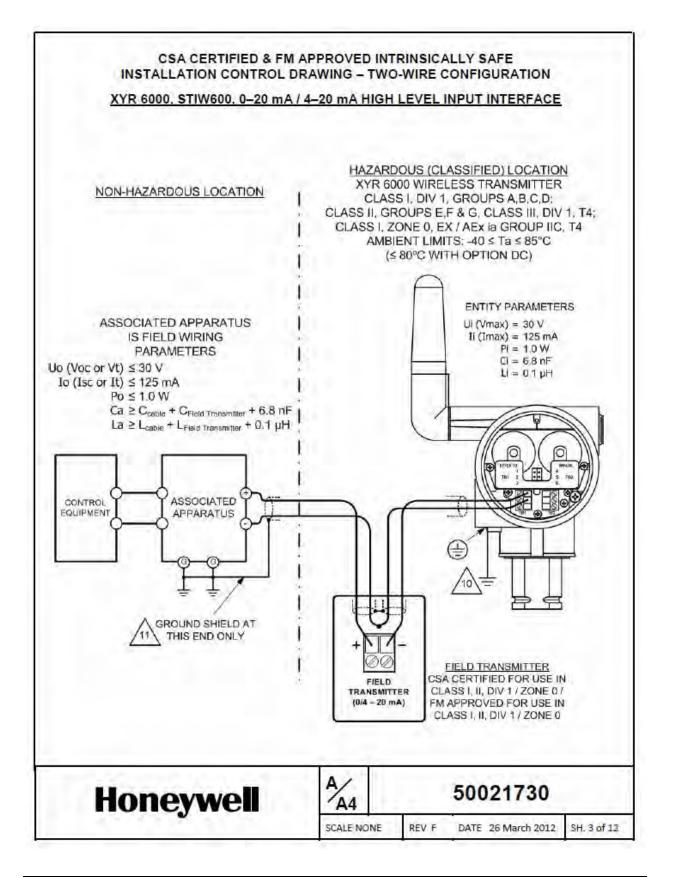
	DRAWN	RJP	1/3/08		Honeyw	el
ENGINEERING	CHECKED	FMK	1/3/08		CSA & FM Control	
CHANGE ORDERS (ECOs) MUST BE	DEV ENG	NOTE 15			R 6000 Wireless T	ransmitters
AUTHÓRIZED BY	MFG ENG		1		Division 1 / Zo	ne 0
ENGINEERING	QA ENG	1-51		A	50021	730
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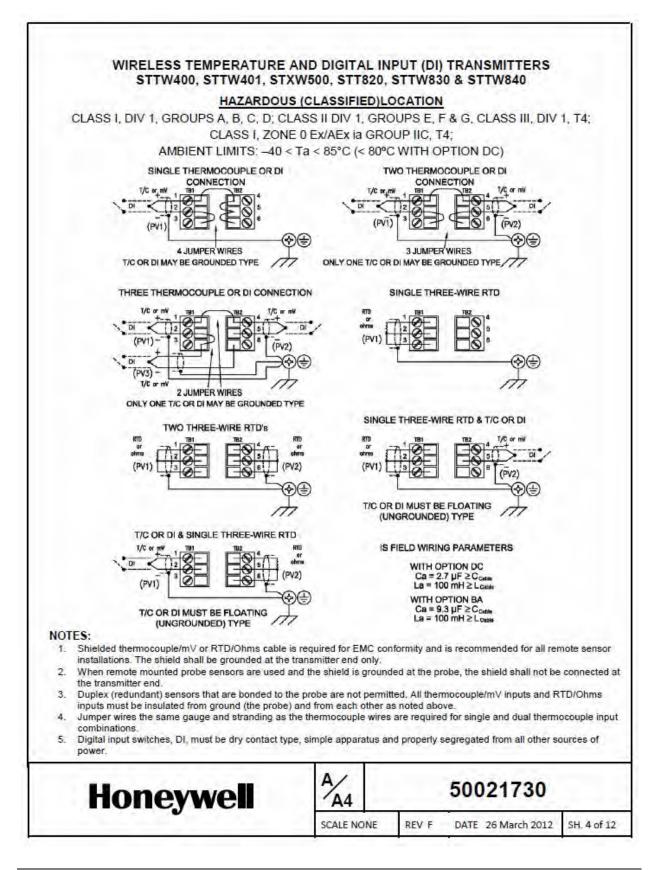
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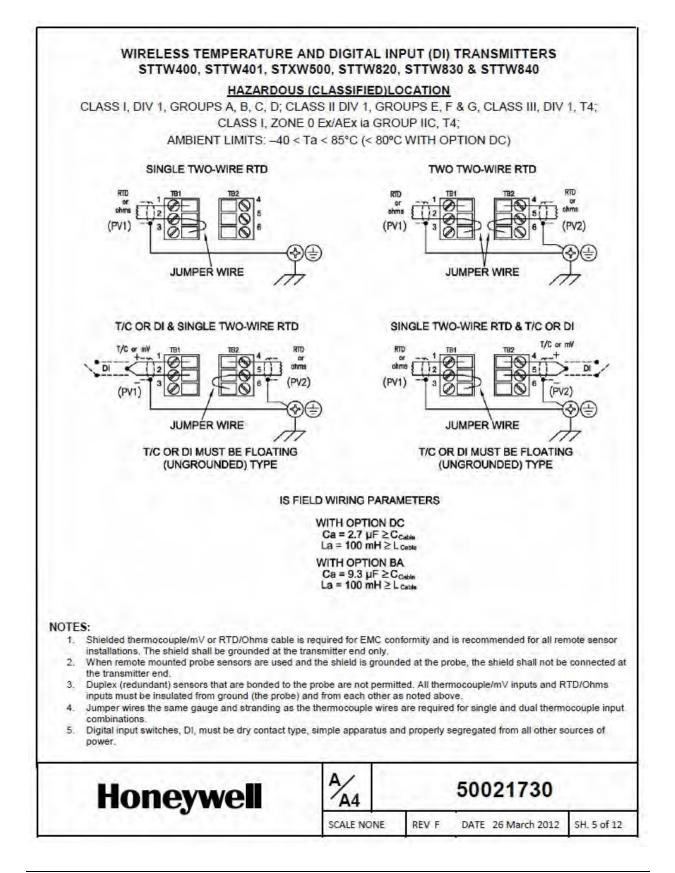
- 12. Divisions 1 & 2, and Zone 0: WARNING: EXPLOSION HAZARD SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR USE IN HAZARDOUS LOCATIONS.
- Division 2: WARNING: EXPLOSION HAZARD DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NON-HAZARDOUS.
- 14. NO REVISION OF THIS CONTROL DRAWING IS PERMITTED WITHOUT AUTHORIZATION FROM CSA AND FM Approvals.
- 15. For release approvals see ECO # 0036573.

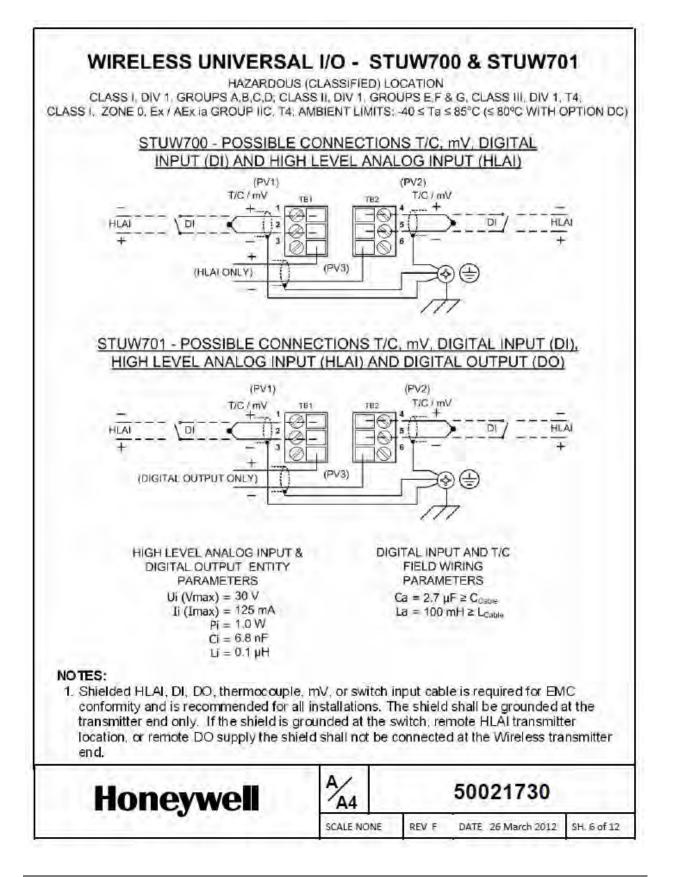
XYR 6000 ST	W600	1	Field Transmitter	Associated Apparatus
Ui or Vmax =	30 V	Ui, Vmax, or Vt ≥		Uo, Voc or Vt $\leq$ 30 V
li or lmax =	125 mA	li, Imax, or <mark>I</mark> t ≥		lo, isc or it ≤ 125 mA
Pi or Pmax =	1.0 W	Pmax ≥	Po	$P_0 \le \frac{(Voc \text{ or } Vt \cdot Isc \text{ or } It)}{4} \le 1.0 \text{ W}$
C1 =	6.8 nF	Ci ≤	Associated Apparatus Ca – Ccable – Ci of other transmitter connected to two-channel barrier.	Ca (or Co) > 6.8 nF
Li =	0	Li≤	Associated Apparatus La – Lcable – Li of other transmitter connected to two-channel barrier.	La (or Lo) > 0 mH

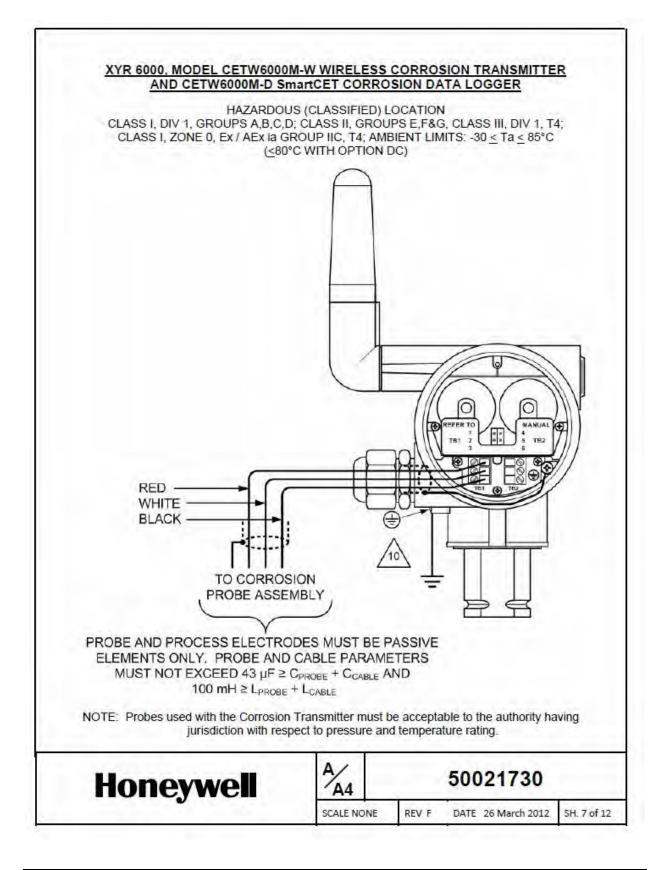
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The following models may be supplied with internal battery power, or externally supplied 24Vdc only when connected to the MTL Associated Apparatus listed on the following system diagram.

NOTE: XYR 6000 ambient limits with 24V Power Supply are -40°C to +80°C.

Model			cription		
STGW944	Series 900 Wireless Transmitte	er, 0-{	500 psi / 0-35 bar		
STGW974	Dual Head Gage Pressure (GP	) 0-3	3000 psi / 0-210 bar		
STDW924	0 : 000 W/: L T ::	0-4	400" H <sub>2</sub> O / 0-1000 mbar		
STDW930	<ul> <li>Series 900 Wireless Transmitter</li> <li>Differential Pressure (DD)</li> </ul>	er, 0-	100 psi / 0-7 bar		
STDW974	<ul> <li>Differential Pressure (DP)</li> </ul>	0-3	3000 psi / 0-210 bar		
STGW94L		0-(	0-500 psi / 0-35 bar		
STGW97L		0-3	3000 psi / 0-210 bar		
STGW98L	<ul> <li>Series 900 Wireless Transmitte</li> </ul>		6000 psi / 0-415 bar		
STGW99L	<ul> <li>In-Line Gage &amp; Absolute Press</li> </ul>		10,000 psig / 0-690 bar		
STAW94L			500 psi / 0-35 barA		
STFW924	Flanged Series 900 Wireless	0-	400 <sup>°</sup> H <sub>2</sub> O/ 0- 1000 mbar Compound aracterized		
STFW932	- Pressure Transmitter		100 psi/ 0- 7 bar Compound Characterized		
STRW93D	Series 900 Wireless Transmitte Dual Pressure & Gage Pressur	er, 0-	2700" H <sub>2</sub> O/ 0- 7 bar Compound aracterized		
STRW94G	Remote Seals		500 psi/ 0- 35 bar		
STFW92F	In-Line Flanged Series 900	0-	400" H <sub>2</sub> O/ 0- 1000 mbar		
STFW93F	Wireless Transmitter		100 psi/ 0- 7 bar		
STDW120			400" H <sub>2</sub> O/ 0- 1000 mbar		
STDW125	Series 100 Wireless Transmitte		600" H <sub>2</sub> O/ 0- 1500 mbar		
STDW120	Differential Pressure (DP)		100 psi/ 0- 7 bar		
STDW130			0- 3000 psi/ 0-210 bar		
STGW14L			500 psi/ 0- 35 bar		
STGW17L	Series 100 Wireless Transmitter, In-Line Gage Pressure Series 100 Wireless Transmitter,		3000 psi/ 0- 210 bar		
STGW18L			6000 psi/ 0- 210 bai		
STGW10L			0- 10000 psi/ 0- 415 bar		
STAW14L	In-Line Absolute Pressure	0-	500 psia/ 0- 35 barA		
STAW140	Series 100 Wireless Transmitter, Single Head Absolute Pressure		0- 500 psia/ 0- 35 barA		
STFW128		Ch	400* H₂O/ 0- 1000 mbar Compound aracterized		
STFW132	Flanged Series 100 Wireless		100 psi/ 0- 7 bar Compound Characterized		
STFW12F	Pressure Transmitter	0-	0- 400" H <sub>2</sub> O/ 0- 1000 mbar		
STFW13F		0-	0- 100 psi/ 0- 7 bar		
STFW14F			0- 600" H <sub>2</sub> O/ 0- 1500 mbar		
STRW12D	and the second second	Ch	0-400" H <sub>2</sub> O/ 0-1000 mbar Compound Characterized		
STRW13D	Series 100 Wireless Transmitte		100 psi/ 0- 7 bar		
STRW14A	<ul> <li>Dual Pressure, Gage Pressure</li> <li>Absolute Remote Seals</li> </ul>	and 0-	500 psia/ 0- 35 barA		
STRW14G	Absolute Remote Seals	0-	500 psi/ 0- 35 bar		
STRW17G			100 psi/ 0- 7 bar		
STTW400	Wireless Temperature Transmi		ansmitter Only with Remote Sensors:		
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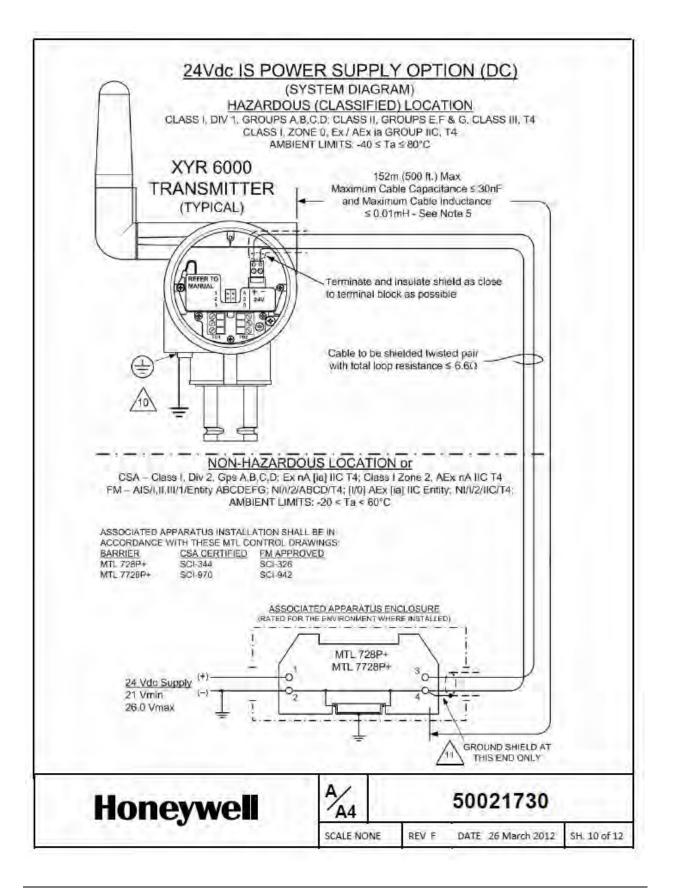
STTW401       Wireless Temperature and Digital Input Transmitter       Transmitter Only with Remote Sensors: 1 T/C AND 2 Digital Inputs         STXW500       Wireless Digital Input Transmitter       Three DI (Switch) Inputs         STUW700       Wireless Universal I/O Interface       Three DI (Switch) Inputs: 4-20 mA Analog, T/C or DI and One Digital Output: 4-20 mA Analog, T/C or DI and One Digital Output (Solid State)         STTW820       Wireless Temperature Transmitter       Transmitter Integrally Mounted to Thermowell or Probe Assembly         STIW800       Wireless High Level Input Interface       4-20 mA Analog Input         STIW600       Wireless Transmitter, Corrosion Monitoring       Transmitter Integrally Mounted to Thermowell or Probe Assembly         STIW600       Wireless High Level Input Interface       4-20 mA Analog Input         CETW6000M-W       SmartCET Wireless Transmitter, Corrosion Data Logger       Millivolt Input from Remote Mounted Corrosion Probe, Data via IrDA Port *         * There is no Antenna for this version       * There is no Antenna for this version         e above listed wireless transmitters may include an Omni-directional or unidirectional high-gain antenna th-gain antenna may be installed remote from the XYR 6000 with the cable length not to exceed 20m. The tenna cable shell shall be bonded to earth ground.         Entity parameters for remote antennas, cables & lightning arrestor: 1 = 43 µF, La = 0.1 mH.	Model		Description
STTW401         Input Transmitter         1 T/C AND 2 Digital Inputs           STXW500         Wireless Digital Input Transmitter         Three DI (Switch) Inputs           STUW700         Wireless Universal I/O Interface         Three Inputs: 4-20 mA Analog, T/C or DI and (Switch)           STUW701         Wireless Universal I/O Interface         Two Inputs: 4-20 mA Analog, T/C or DI and One Digital Output (Solid State)           STTW820         Wireless Temperature Transmitter         Transmitter Integrally Mounted to Thermowell or Probe Assembly           STIW600         Wireless High Level Input Interface         4-20 mA Analog Input           CETW6000M-W         SmartCET Wireless Transmitter, Corrosion Monitoring         Millivolt Input from Remote Mounted Corrosion Probe           CETW6000M-D         SmartCET Corrosion Data Logger         Millivolt Input from Remote Mounted Corrosion Probe, Data via IrDA Port *           * There is no Antenna for this version         * There is no Antenna for this version           e above listed wireless transmitters may include an Omni-directional or unidirectional high-gain antenna th-gain antenna may be installed remote from the XYR 6000 with the cable length not to exceed 20m. Thena cable shield shall be bonded to earth ground.           Entity parameters for remote antennas, cables & lightning arrestor:	1		3 T/C's, or 2 RTD's
STXW500       Wireless Digital Input Transmitter       Three DI (Switch) Inputs         STUW700       Wireless Universal I/O Interface       Three Inputs: 4-20 mA Analog, T/C's, or DI (Switch)         STUW701       Wireless Universal I/O Interface       Two Inputs: 4-20 mA Analog, T/C or DI and One Digital Output (Solid State)         STTW820       STTW830       Wireless Temperature Transmitter       Transmitter Integrally Mounted to Thermowell or Probe Assembly         STIW600       Wireless High Level Input Interface       4-20 mA Analog Input         CETW6000M-W       SmartCET Wireless Transmitter, Corrosion Monitoring       Millivolt Input from Remote Mounted Corrosion Probe         CETW6000M-D       SmartCET Corrosion Data Logger       Millivolt Input from Remote Mounted Corrosion Probe, Data via IrDA Port *         * There is no Antenna for this version       * There is no Antenna for this version         e above listed wireless transmitters may include an Omni-directional or unidirectional high-gain antenna h-gain antenna may be installed remote from the XYR 6000 with the cable length not to exceed 20m. Ti enna cable shield shall be bonded to earth ground.         Entity parameters for remote antennas, cables & lightning arrestor:	STTW401		
STUW700       Wireless Universal I/O Interface       (Switch)         STUW701       Wireless Universal I/O Interface       Two Inputs: 4-20 mA Analog, T/C or DI and One Digital Output (Solid State)         STTW820       STTW830       Wireless Temperature Transmitter       Transmitter Integrally Mounted to Thermowell or Probe Assembly         STIW600       Wireless High Level Input Interface       4-20 mA Analog Input         CETW6000M-W       SmartCET Wireless Transmitter, Corrosion Monitoring       Millivolt Input from Remote Mounted Corrosion Probe         CETW6000M-D       SmartCET Corrosion Data Logger       Millivolt Input from Remote Mounted Corrosion Probe, Data via IrDA Port *         * There is no Antenna for this version       * There is no Antenna for this version         e above listed wireless transmitters may include an Onni-directional or unidirectional high-gain antenna h-gain antenna may be installed remote from the XYR 6000 with the cable length not to exceed 20m. Therma cable shield shall be bonded to earth ground.         Entity parameters for remote antennas, cables & lightning arrestor:	STXW500		
STOWPOT         Writeless Oniversal I/O Interface         One Digital Output (Solid State)           STTW820 STTW830 STTW840         Wireless Temperature Transmitter STTW840         Transmitter Integrally Mounted to Thermowell or Probe Assembly           STIW600         Wireless High Level Input Interface         4-20 mA Analog Input           CETW6000M-W         SmartCET Wireless Transmitter, Corrosion Monitoring         Millivolt Input from Remote Mounted Corrosion Probe           CETW6000M-D         SmartCET Corrosion Data Logger         Millivolt Input from Remote Mounted Corrosion Probe, Data via IrDA Port *           * There is no Antenna for this version         * There is no Antenna for this version           e above listed wireless transmitters may include an Omni-directional or unidirectional high-gain antenna h-gain antenna may be installed remote from the XYR 6000 with the cable length not to exceed 20m. There are antennas, cables & lightning arrestor:	N. S. S. S. S. S. S.	Wireless Universal I/O Interface	
STTW830 STTW840       Wireless Temperature Transmitter       Transmitter integrally Mounted to Thermowell or Probe Assembly         STIW600       Wireless High Level Input Interface       4-20 mA Analog Input         CETW6000M-W       SmartCET Wireless Transmitter, Corrosion Monitoring       Millivolt Input from Remote Mounted Corrosion Probe         CETW6000M-D       SmartCET Corrosion Data Logger       Millivolt Input from Remote Mounted Corrosion Probe, Data via IrDA Port *         * There is no Antenna for this version         e above listed wireless transmitters may include an Omni-directional or unidirectional high-gain antenna h-gain antenna may be installed remote from the XYR 6000 with the cable length not to exceed 20m. There is no antenna cable shield shall be bonded to earth ground.         Entity parameters for remote antennas, cables & lightning arrestor:	STUW701	Wireless Universal I/O Interface	
CETW6000M-W         SmartCET Wireless Transmitter, Corrosion Monitoring         Millivolt Input from Remote Mounted Corrosion Probe           CETW6000M-D         SmartCET Corrosion Data Logger         Millivolt Input from Remote Mounted Corrosion Probe, Data via IrDA Port *           * There is no Antenna for this version         * There is no Antenna for this version           e above listed wireless transmitters may include an Omni-directional or unidirectional high-gain antenna h-gain antenna may be installed remote from the XYR 6000 with the cable length not to exceed 20m. There is no antenna cable shield shall be bonded to earth ground.           Entity parameters for remote antennas, cables & lightning arrestor:	STTW830	Wireless Temperature Transmitter	
CETW6000M-W         SmartCET Wireless Transmitter, Corrosion Monitoring         Millivolt Input from Remote Mounted Corrosion Probe           CETW6000M-D         SmartCET Corrosion Data Logger         Millivolt Input from Remote Mounted Corrosion Probe, Data via IrDA Port *           * There is no Antenna for this version         * There is no Antenna for this version           e above listed wireless transmitters may include an Omni-directional or unidirectional high-gain antenna h-gain antenna may be installed remote from the XYR 6000 with the cable length not to exceed 20m. The tenna cable shield shall be bonded to earth ground.           Entity parameters for remote antennas, cables & lightning arrestor:	STIW600	Wireless High Level Input Interface	4-20 mA Analog Input
CETW6000M-D         SmartCET Corrosion Data Logger         Millivolt Input from Remote Mounted Corrosion Probe, Data via IrDA Port *           * There is no Antenna for this version           e above listed wireless transmitters may include an Omni-directional or unidirectional high-gain antenna h-gain antenna may be installed remote from the XYR 6000 with the cable length not to exceed 20m. T tenna cable shield shall be bonded to earth ground.           Entity parameters for remote antennas, cables & lightning arrestor:	CETW6000M-W	SmartCET Wireless Transmitter,	Millivolt Input from Remote Mounted
e above listed wireless transmitters may include an Omni-directional or unidirectional high-gain antenna h-gain antenna may be installed remote from the XYR 6000 with the cable length not to exceed 20m. T tenna cable shield shall be bonded to earth ground. Entity parameters for remote antennas, cables & lightning arrestor:	CETW6000M-D		
		s for remote antennas, cables & lig	ghtning arrestor:
		s for remote antennas, cables & lig	ghtning arrestor:

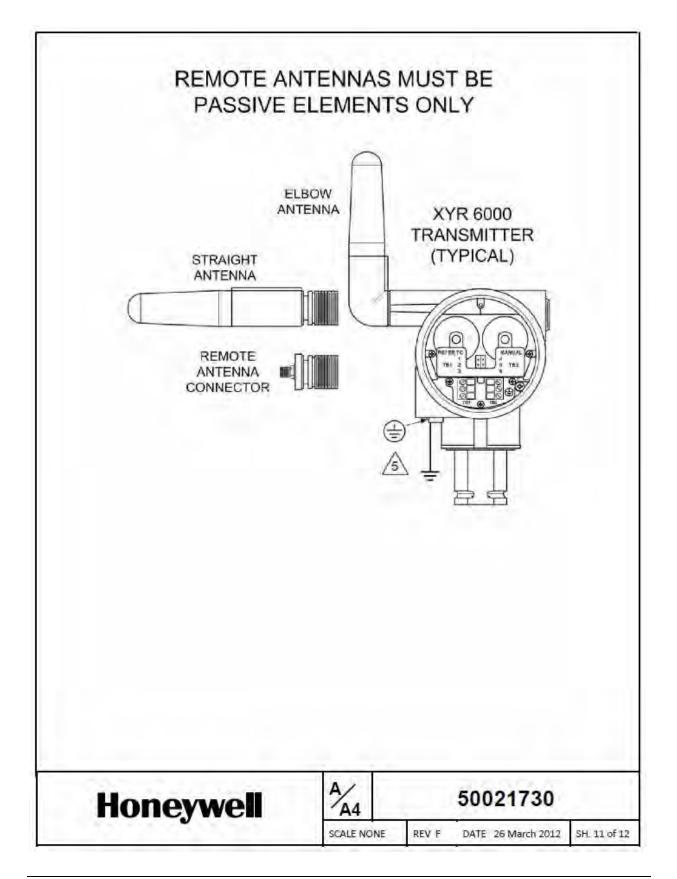
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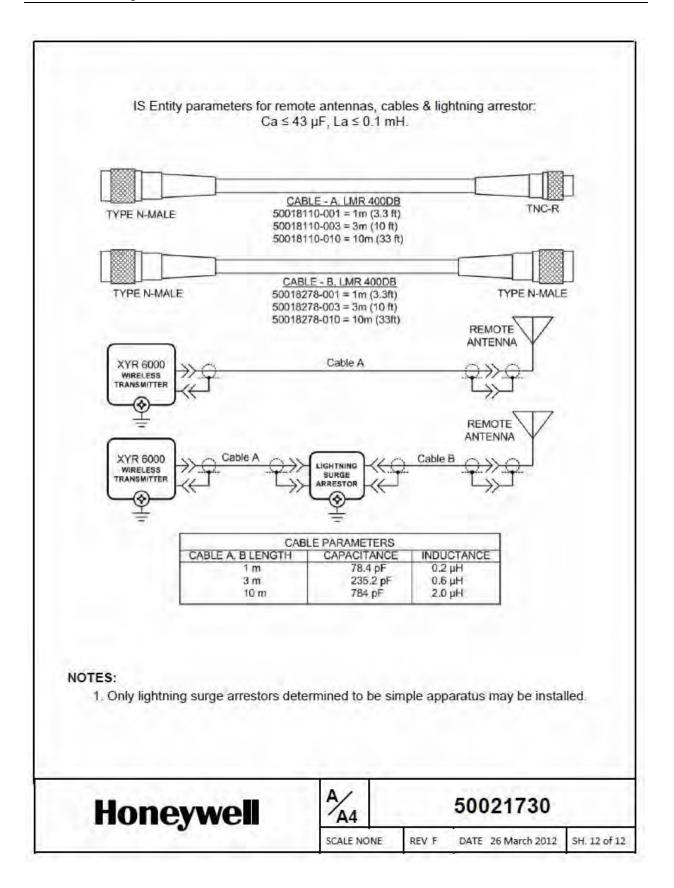
DATE 26 March 2012

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#### 6. Certification Installation Requirements Certification Drawings



## **ATEX Control Drawings**

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INFOR	RMATION CONTAINED H	HEREIN SHALL BE	REPRODUCED, USE		ISS	REVISION & DATE	APPD
DISCL	OSURE OF THIS DOCU TEN AGREEMENT, NOT	MENT IS SUBJECT	T TO THE RESTRICT	CONSTRUED AS	F	26 March 2012 ECO-0069377	VM
соры Ткарі Алут <u>М</u> 1. 2. 3.	ATEX INT ATEX INT ATEX INT ATEX INT IOTES: Electrical apparai safety), the applic Electrical apparai 60079-0 and with ATEX certified in Control Drawing of than 1.2V, 0.1A, shall bee installed	RINSIC INSTA XYR 60 tus and circuits cable parts of I tus and circuits the requirement tinsically safe or shall be Sim 25mW, or 20µ4 d per this contri	ALLY SALLY SALLY SALLATION CALLATION CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROLOGICAL CONTROL	AFE (ia) AN AFE (ia) AN AFE (ia) AN AFE (ia) AN AFE (ia) AN AN ACONTRO ELESS TRA one 0 if they are in acco of the requirements of one 2 if they are in acco 14, 12.2. e installed in accordance mple Apparatus are dev s, thermocouples, and F	dance wi IEC 6007 rdance wi e with the ices that v	DN-SPARKING AWING	- intrinsic parts of IEC ore
4.	dual-channel or t	Co≥Ci + Ccal wo single-char	ole, Lo ≥ Li + Lcab nel barriers may b	le, Po ≤ Pi. Where two	case, bot	barrier channels are required, o h channels have been Certified	
5.		eld Transmitte ield Transmitte	er Ci + Ccable ≤ As	sociated Apparatus Co sociated Apparatus Lo.			
	Inductance - 0.6	6μH/m.				/ be used: Capacitance – 197pF	
7.			60079-0 Ex II/III in: certified cable glar		etal cond	luit is not used, seal cable entrie	S
8.	Control equipment	nt that is conne	ected to associated	l apparatus must not us	e or gene	rate more than 250 V.	
^	approved.					lled in a Zone 2 location if so	
	IEC 60079-14, C	ause 12.2.4.	The resistance of t	he ground path must be	e less than		
11	shield shall be gr	ounded at the	supply (barrier) en	d to the barrier ground I	ous only v	I installations. The 4-20 mA loop when grounded Zener barriers and galvanically isolated barriers are	re
N	MASTER FILE TY	PE: MS WOF	RD				
		DRAWN	F.Kent		H	oneywell	
	NGINEERING	CHECKED				X Control Drawing	
CHA (EC	ANGE ORDERS COs) MUST BE	DEV ENG	NOTE 15	XYI	R 6000	Wireless Transmitte	ers
	THORIZED BY APPROVALS	MFG ENG			4	Zones 0, 1 & 2	
	NGINEERING	QA ENG		A		50033269	
		TOLERANCE	UNLESS NOTED	A4			
		ANGULAR	DIMENSION	SCALE	USE	ED ON SI	H.1 OF 12

12. Zone 0 or Zone 1: WARNING: EXPLOSION HAZARD – SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR USE IN HAZARDOUS LOCATIONS.

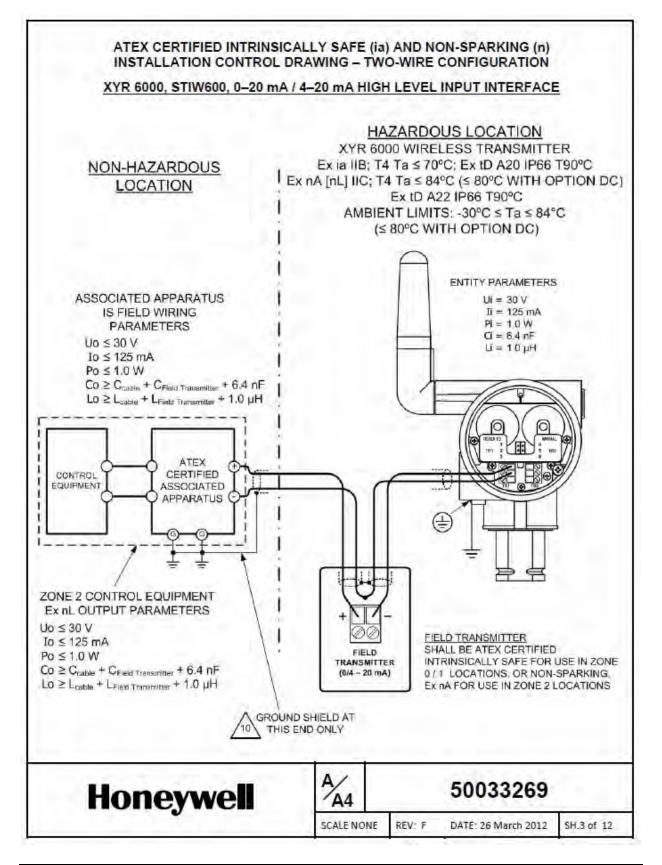
 Zone 2: WARNING: EXPLOSION HAZARD – DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NON-HAZARDOUS.

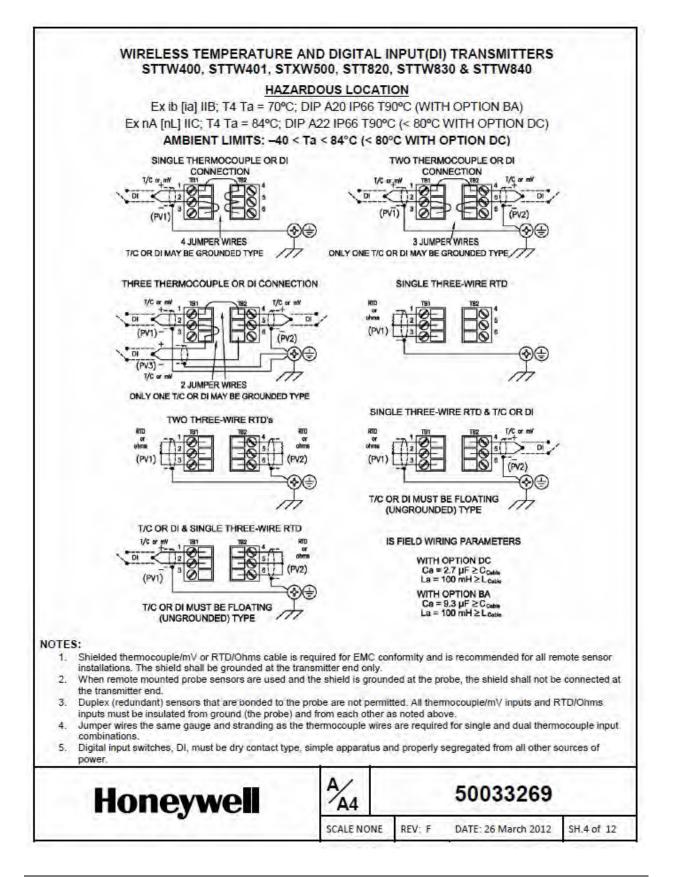
 NO REVISION OF THIS CONTROL DRAWING IS PERMITTED WITHOUT AUTHORIZATION FROM THE NOTIFIED BODY.

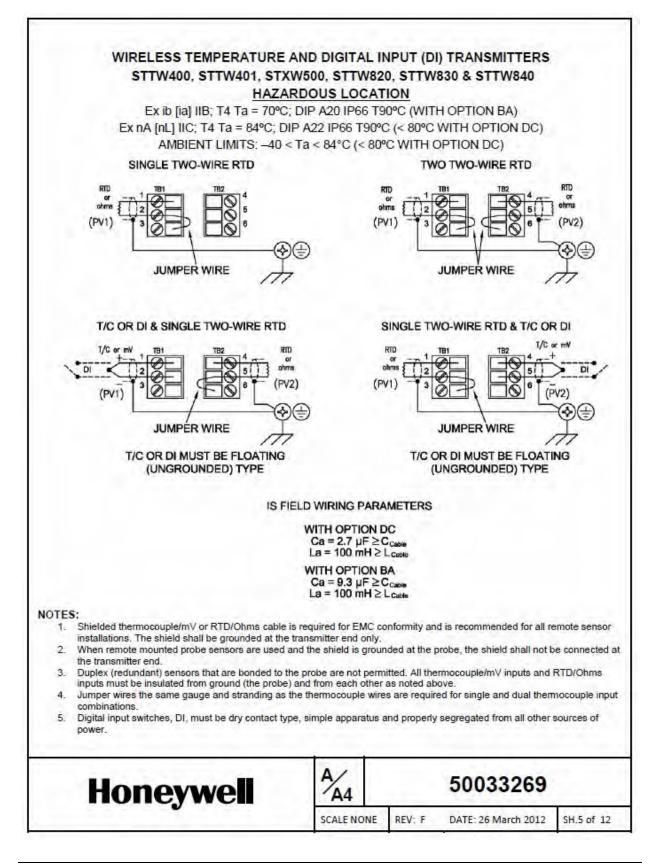
15. For release approvals see ECO # 0049814

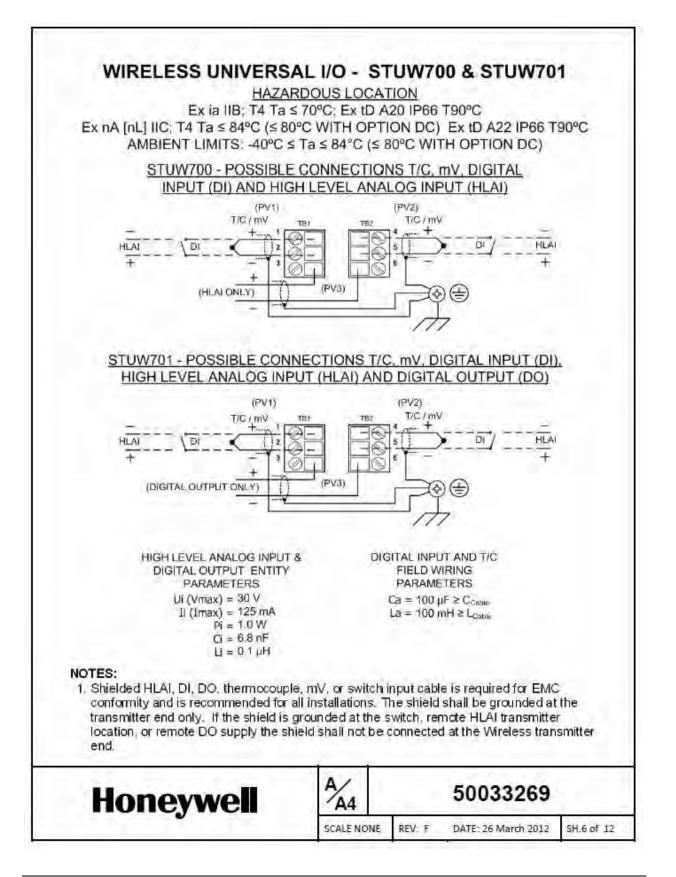
XYR 6000 STIW600	Field Transmitter	Associated Apparatus
Ui = 30 V	Ui≥	Uo ≤ 30 V
li = 125 mA	li≥	lo ≤ 125 mA
Pi = 1.0 W	Pi ≥ Po	$Po \le \frac{(Voc or Vt \cdot Isc or It)}{4} \le 1.0 W$
Ci = 6.4 nF	Associated Apparatus Co – Ci ≤ Ccable – Ci of other transmitter connected to two-channel barrier.	Co > 6.4 nF
Lı = 1.0 µH	Associated Apparatus Lo – Lcable Li ≤ – Li of other transmitter connected to two-channel barrier.	Lo > 1.0 µH

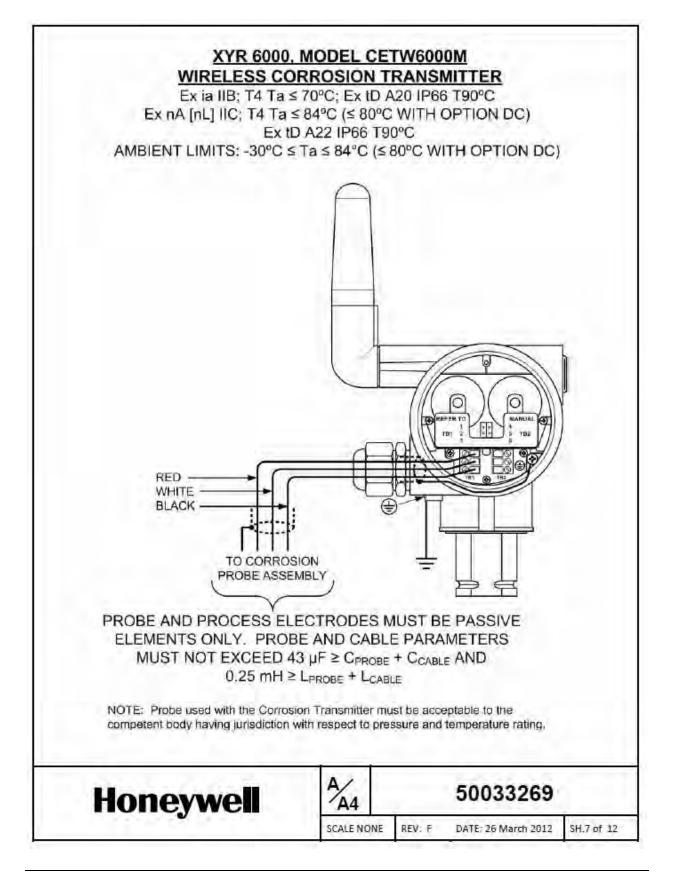
	A/	 50033269	
Honeywell	A/A4	50033269	











		supply are -40°C to +80°C.
Model	1	Description
STGW944	Series 900 Wireless Transmitter,	0-500 psi / 0-35 bar
STGW974	Dual Head Gage Pressure (GP)	0-3000 psi / 0-210 bar
STDW924		0-400" H <sub>2</sub> O / 0-1000 mbar
STDW930	<ul> <li>Series 900 Wireless Transmitter,</li> <li>Differential Pressure (DP)</li> </ul>	0-100 psi / 0-7 bar
STDW974	Differentian ressure (Dr.)	0-3000 psi / 0-210 bar
STGW94L	1 · · · · · · · · · · · · · · · · · · ·	0-500 psi / 0-35 bar
STGW97L	Series 900 Wireless Transmitter,	0-3000 psi / 0-210 bar
STGW98L	In-Line Gage & Absolute Pressure	0-6000 psi / 0-415 bar
STGW99L	In Line Gage & Absolute Pressure	0-10,000 psig / 0-690 bar
STAW94L	A second s	0-500 psi / 0-35 barA
STFW924	Flanged Series 900 Wireless Pressure Transmitter	0- 400" H <sub>2</sub> O/ 0- 1000 mbar Compound Characterized
STFW932	Fressure transmitter	0- 100 psi/ 0- 7 bar Compound Characterized
STRW93D	Series 900 Wireless Transmitter, Dual Pressure & Gage Pressure	0- 2700" H <sub>2</sub> O/ 0- 7 bar Compound Characterized
STRW94G	Remote Seals	0- 500 psi/ 0- 35 bar
STFW92F	In-Line Flanged Series 900	0- 400" H <sub>2</sub> O/ 0- 1000 mbar
STFW93F	Wireless Transmitter	0- 100 psi/ 0- 7 bar
STDW120		0- 400" H <sub>2</sub> O/ 0- 1000 mbar
STDW125	Series 100 Wireless Transmitter,	0- 600" H <sub>2</sub> O/ 0- 1500 mbar
STDW130	Differential Pressure (DP)	0- 100 psi/ 0- 7 bar
STDW170		0- 3000 psi/ 0-210 bar
STGW14L	The second se	0- 500 psi/ 0- 35 bar
STGW17L	Series 100 Wireless Transmitter,	0- 3000 psi/ 0- 210 bar
STGW18L	In-Line Gage Pressure	0- 6000 psi/ 0- 415 bar
STGW19L		0- 10000 psi/ 0- 690 bar
STAW14L	Series 100 Wireless Transmitter, In-Line Absolute Pressure	0- 500 psia/ 0- 35 barA
STAW140	Series 100 Wireless Transmitter, Single Head Absolute Pressure	0- 500 psia/ 0- 35 barA
STFW128		0- 400" H <sub>2</sub> O/ 0- 1000 mbar Compound Characterized
STFW132	Flanged Series 100 Wireless	0- 100 psi/ 0- 7 bar Compound Characterized
STFW12F	Pressure Transmitter	0- 400" H <sub>2</sub> O/ 0- 1000 mbar
STFW13F	-	0- 100 psi/ 0- 7 bar
STFW14F	-	0- 600" H <sub>2</sub> O/ 0- 1500 mbar
STRW12D		0- 400" H <sub>2</sub> O/ 0- 1000 mbar Compound Characterized
STRW13D	Series 100 Wireless Transmitter,	0- 100 psi/ 0- 7 bar
STRW14A	Dual Pressure, Gage Pressure and Absolute Remote Seals	0- 500 psia/ 0- 35 barA
STRW14G	Ausoidle Nellivie Geals	0- 500 psi/ 0- 35 bar
STRW17G		0- 100 psi/ 0- 7 bar
STTW400	Wireless Temperature Transmitter	Transmitter Only with Remote Sensors:

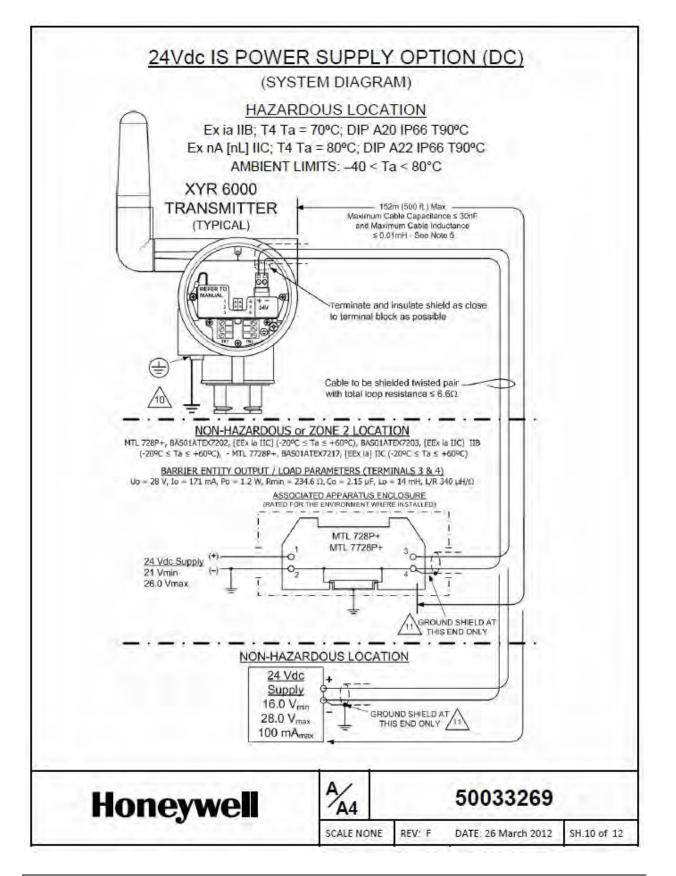
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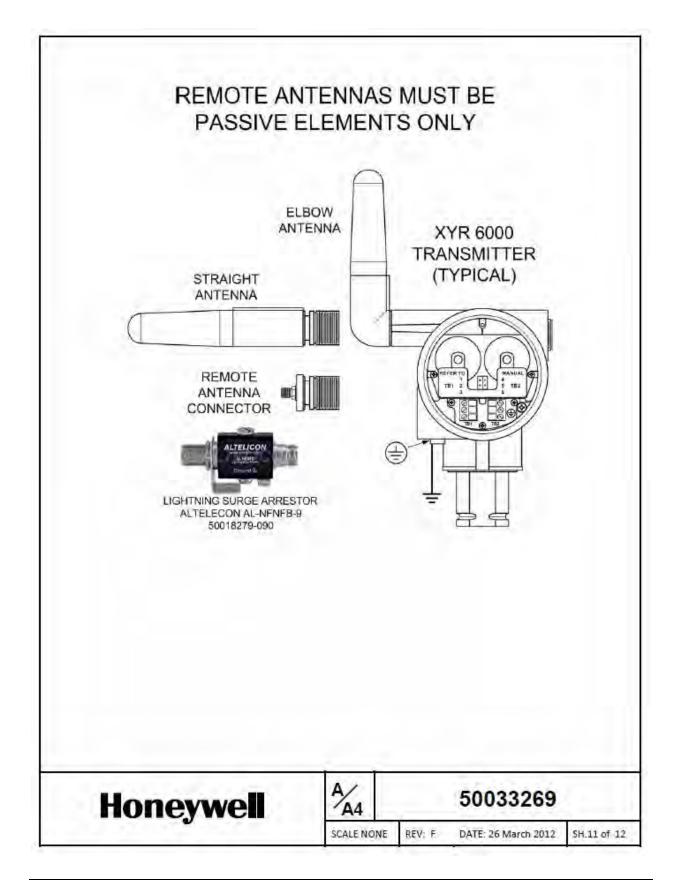
Model	1	Description
	St. A. COLLARD AND AND AND AND AND AND AND AND AND AN	3 T/C's, or 2 RTD's
STTW401	Wireless Temperature and Digital Input Transmitter	Transmitter Only with Remote Sensors: 1 T/C AND 2 Digital Inputs
STXW500	Wireless Digital Input Transmitter	Three DI (Switch) Inputs
STUW700	Wireless Universal I/O Interface	Three Inputs: 4-20 mA Analog, T/C's, or DI (Switch)
STUW701	Wireless Universal I/O Interface	Two Inputs: 4-20 mA Analog, T/C or DI and One Digital Output (Solid State)
STTW820 STTW830 STTW840	Wireless Temperature Transmitter	Transmitter Integrally Mounted to Thermowell or Probe Assembly
STIW600	Wireless High Level Input Interface	4-20 mA Analog Input
CETW6000M-W	SmartCET Wireless Transmitter, Corrosion Monitoring	Millivolt Input from Remote Mounted Corrosion Probe
CETW6000M-D	SmartCET Corrosion Data Logger	Millivolt Input from Remote Mounted Corrosion Probe, Data via IrDA Port *

\* There is no Antenna for this version

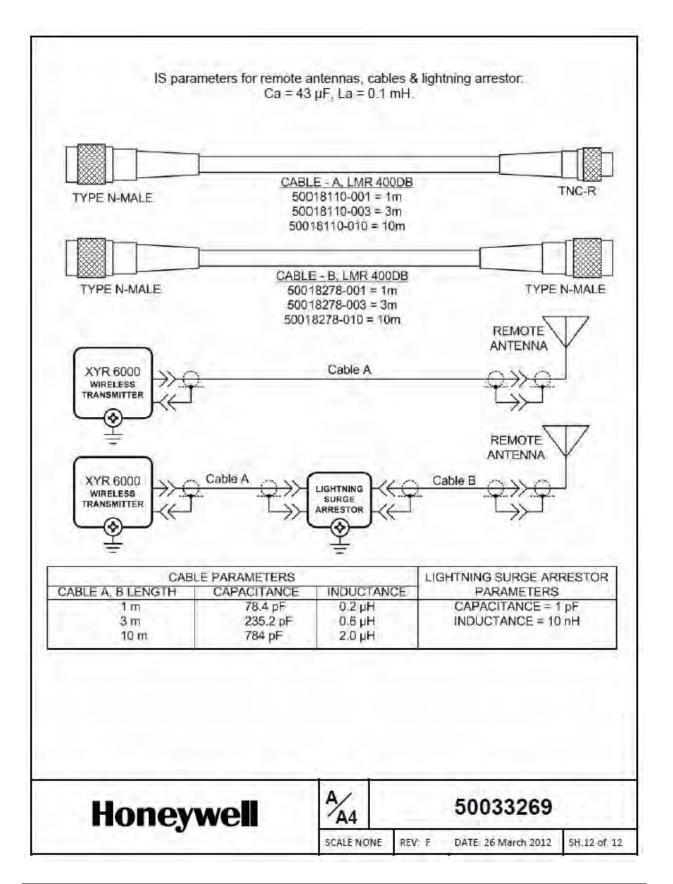
The above listed wireless transmitters may include an Omni-directional or unidirectional high-gain antenna. The high-gain antenna may be installed remote from the XYR 6000 with the cable length not to exceed 20m. The antenna cable shield shall be bonded to earth ground.

IS Entity parameters for remote antennas, cables & lightning arrestor: Ca = 43  $\mu F,$  La = 0.1 mH.





#### 6. Certification Installation Requirements Certification Drawings



## **IECEx Control Drawings**

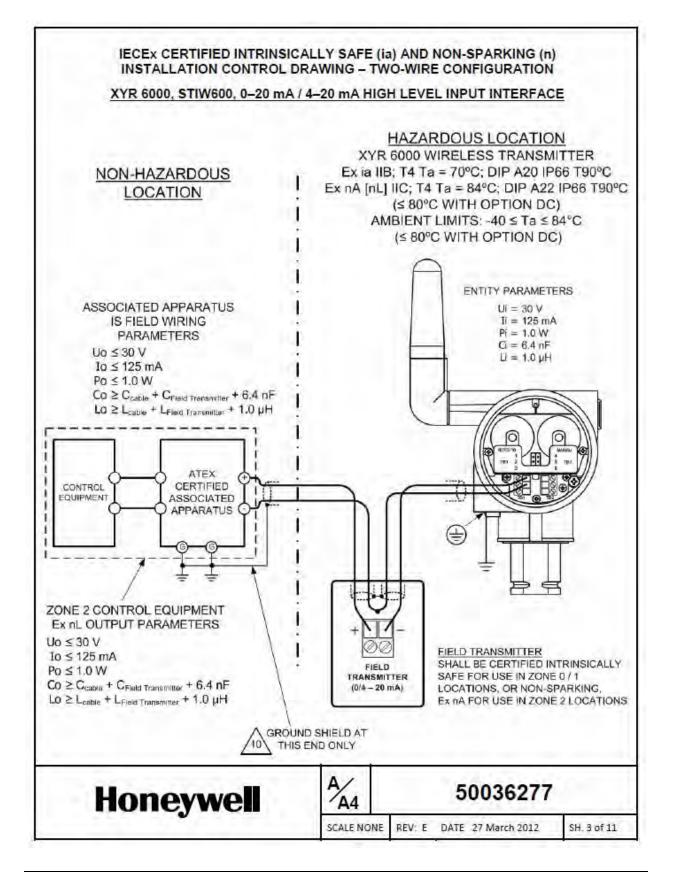
COPYRIGHT 2012, HONEYWI				ISS	REVISION & DATE	APPD
THERS WITHOUT THE WRI ISCLOSURE OF THIS DOCU	TTEN AUTHORIZA	ATION OF HONEYWELL.	USE, DUPLICATION, OR	E	27 March 2012	VM
RITTEN AGREEMENT, NOT ONFERRING BY IMPLICATION RADEMARK, COPYRIGHT C	ON, ESTOPPEL, C	OR OTHERWISE ANY LIC	ENSE TO ANY PATENT,	-	ECO-0069377	
<ol> <li>safety), the applie</li> <li>Electrical appara 60079-0 and with</li> <li>IECEx certified in Control Drawing than 1.2V, 0.1A, shall bee installed</li> </ol>	INSTA XYR 60 tus and circuits cable parts of I tus and circuits the requirement trinsically safe or shall be Sim 25mW, or 20µ, d per this contr	a can be used in zon EC 60079-0 and with a can be used in zon ents of IEC 60079-14 apparatus shall be i ple Apparatus. Simp J, such as switches, ol drawing.	PARKING CONTRO LESS TRA e 0 if they are in acc h the requirements of e 2 if they are in acc 4, 12.2. installed in accordan ole Apparatus are de thermocouples, and	ordance w f IEC 6007 ordance w ce with the vices that	AWING	e parts of IE
dual-channel or t	Co≥Ci+Ccal wosingle-char	ole, Lo≥Li + Lcable,	Po ≤ Pi. Where two used, where in eithe	er case, bo	barrier channels are required, o th channels have been Certified	
	eld Transmitte ield Transmitte	r Ui≥ Uo, li≥ lo; r Ci + Ccable ≤ Asse r Li + Lcable ≤ Asso				
<ol> <li>When the electric Inductance – 0.60</li> </ol>		of the cable are unk	nown, the following	values ma	y be used: Capacitance – 197pF	=/m,
7. For IECEx 60079 using a certified of			metal conduit is not	used, seal	cable entries against dust and t	fibers
					erate more than 250 V.	
A approved.			Contraction of the second second		alled in a Zone 2 location if so	
IEC 60079-14, C	ause 12.2.4.	The resistance of the	e ground path must k	e less that		
shield shall be gr	ounded at the	supply (barrier) end	to the barrier ground	bus only	Il installations. The 4-20 mA loop when grounded Zener barriers a galvanically isolated barriers ar	ire
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CERTIFICATION	DRAWN	F.Kent		н	oneywell	_
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HANGE ORDERS	DEV ENG	NOTE 15	XY	'R 600	Ex Control Drawing 0 Wireless Transmitt	ers
AUTHORIZED BY	MFG ENG				Zones 0, 1 & 2	
ENGINEERING	QA ENG	i (	A		50036277	
	TOLERANCE	UNLESS NOTED	A4	-4-	COULT	1
	ANGULAR	DIMENSION	SCALE	USI	ED ON S	H.1 OF 11

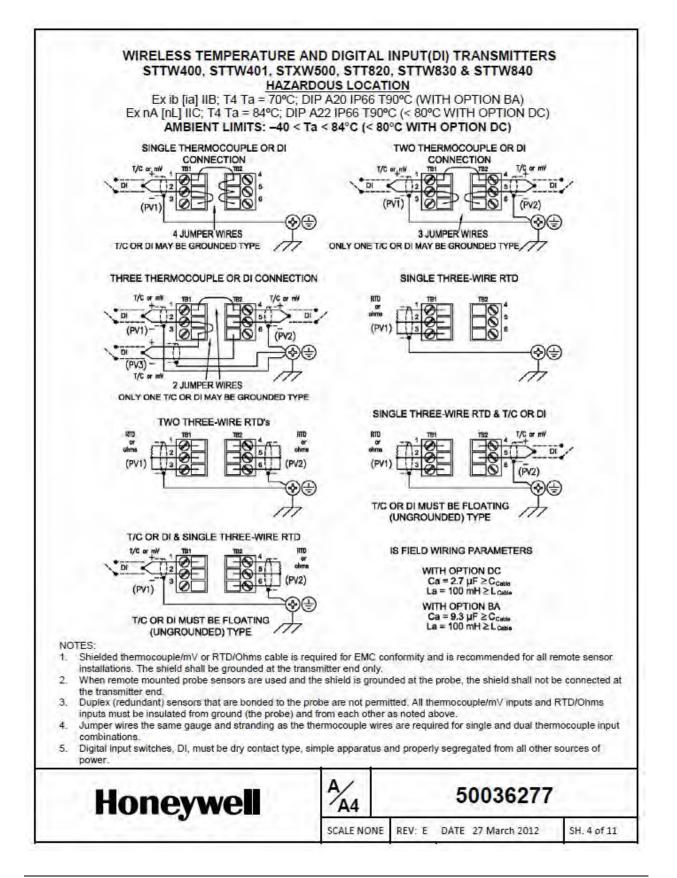
12. Zone 0 or Zone 1: WARNING: EXPLOSION HAZARD – SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR USE IN HAZARDOUS LOCATIONS.

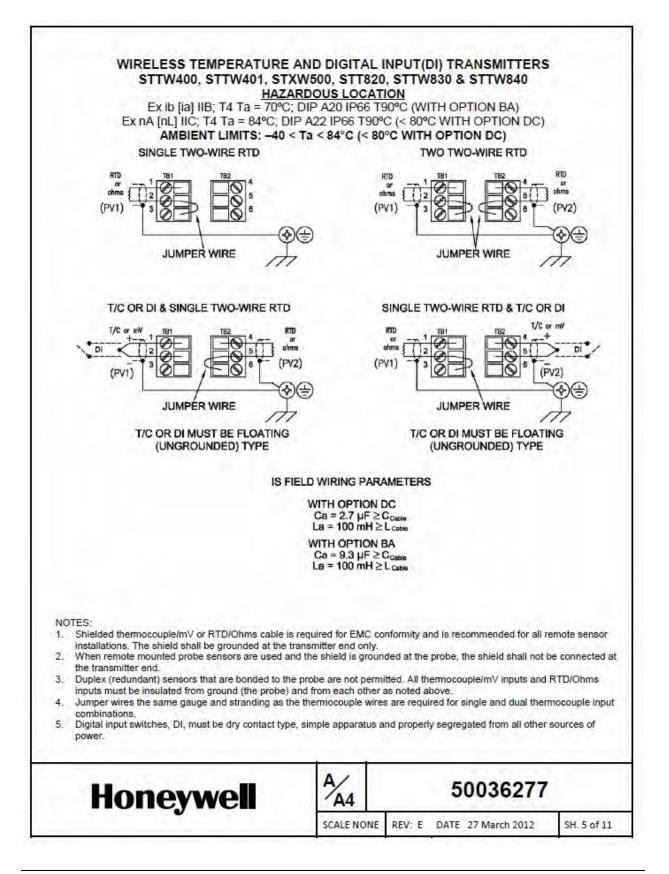
- Zone 2: WARNING: EXPLOSION HAZARD DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NON-HAZARDOUS.
- 14. NO REVISION OF THIS CONTROL DRAWING IS PERMITTED WITHOUT AUTHORIZATION FROM THE NOTIFIED BODY.
- 15. For release approvals see ECO # 0049814.

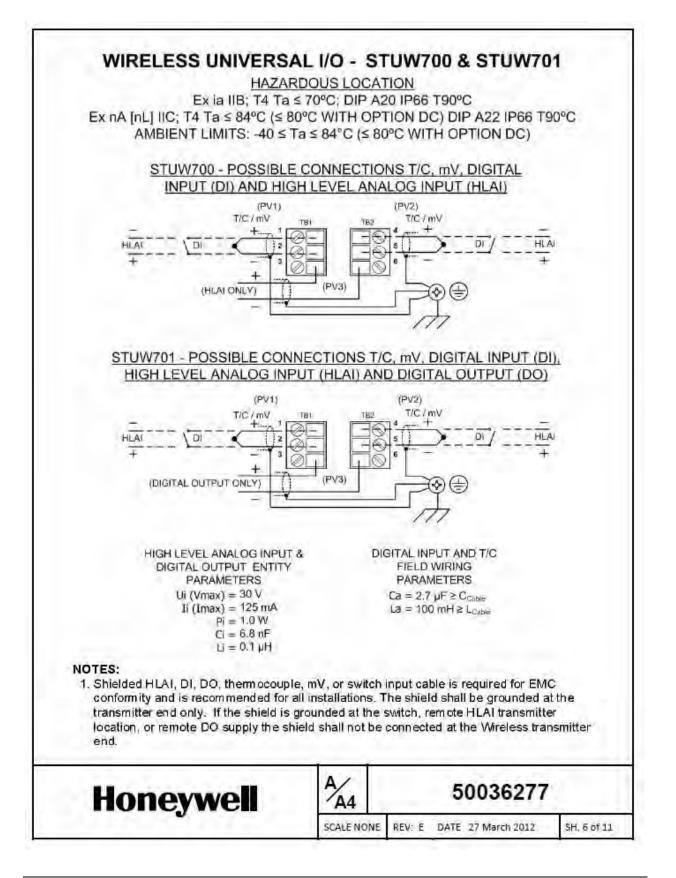
XYR 6000 STIW600	Field Transmitter	Associated Apparatus
Ui = 30 V	Ui≥	Uo ≤ 30 V
li = 125 mA	li≥	lo ≤ 125 mA
Pi = 1.0 W	Pi ≥ Po	$Po \le \frac{(Voc \text{ or } Vt \cdot Isc \text{ or } It)}{4} \le 1.0 \text{ W}$
Ci = 6.4 nF	Associated Apparatus Co – Ci ≤ Ccable – Ci of other transmitter connected to two-channel barrier.	Co > 6.4 nF
L) = 1.0 µH	Associated Apparatus Lo – Lcable Li ≤ – Li of other transmitter connected to two-channel barrier.	Lo > 1.0 µH

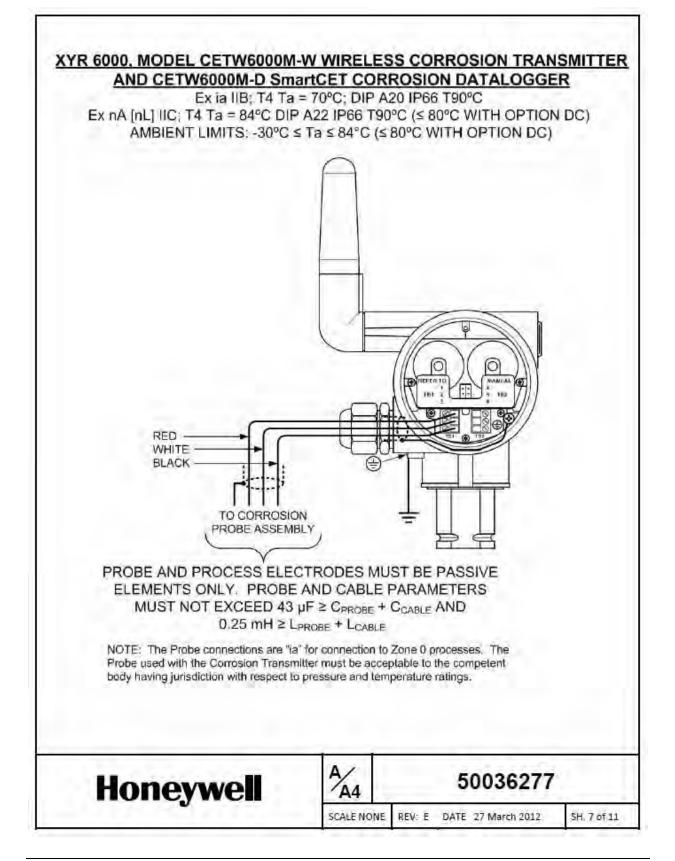
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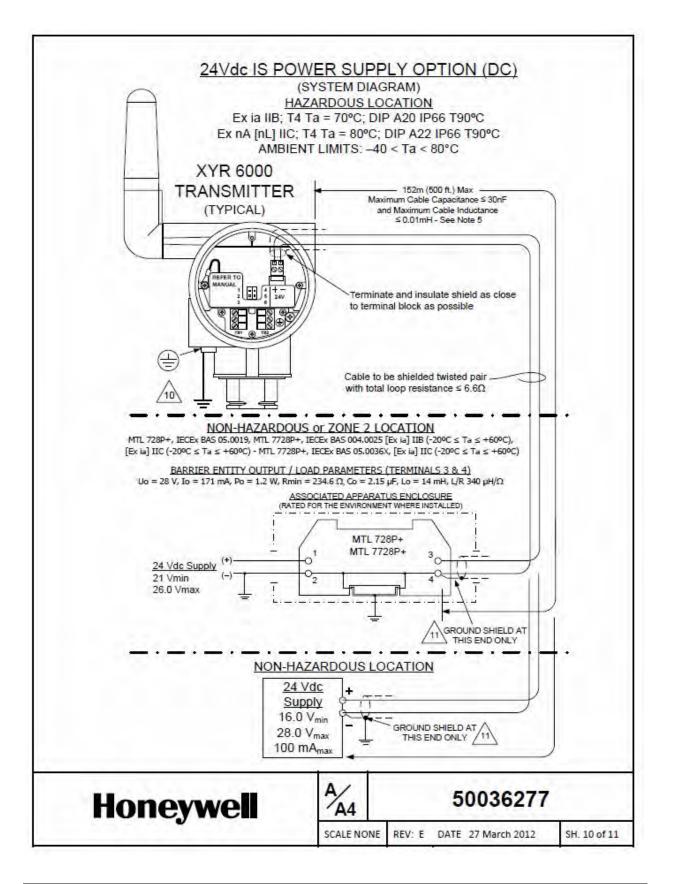


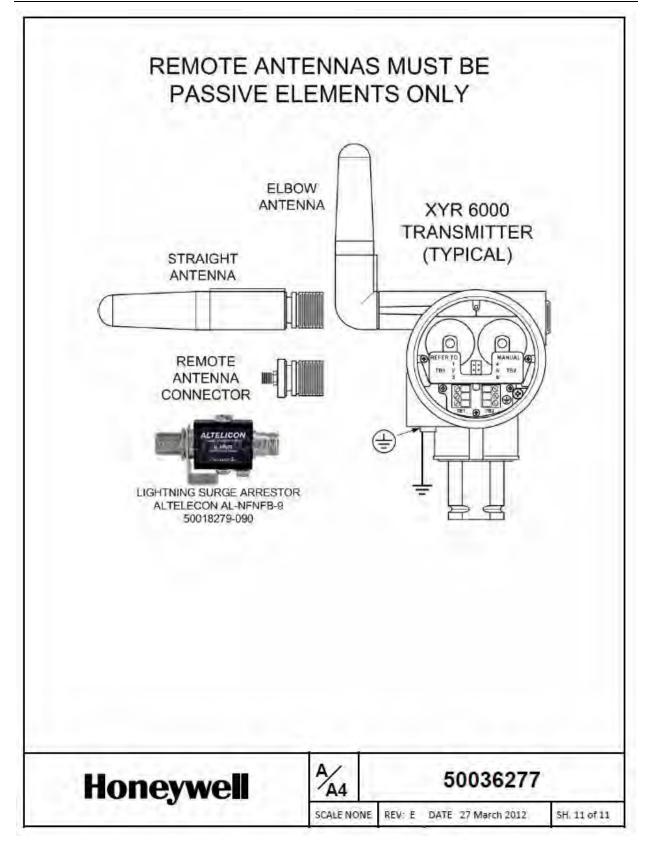


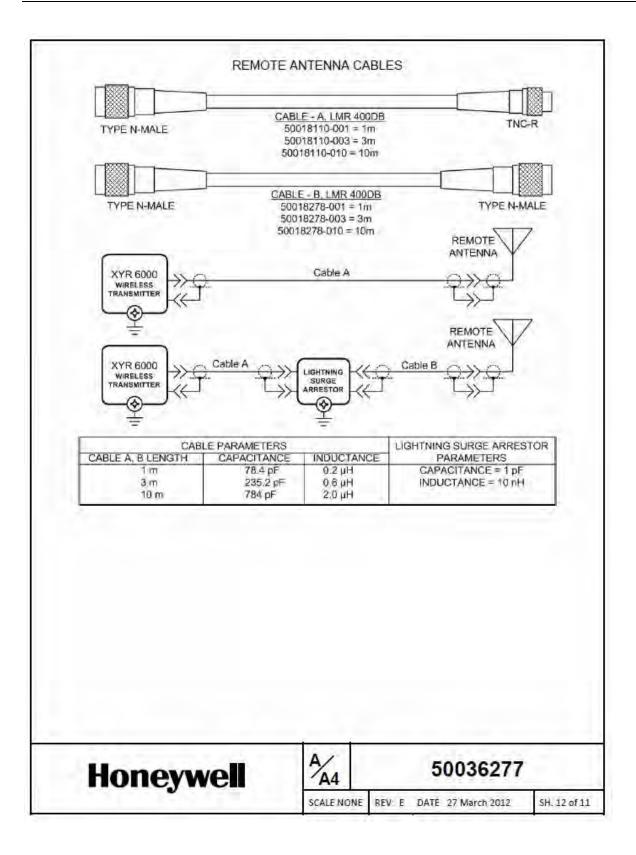


	0 ambient limits with 24V Power S	
Model		Description
STGW944	Series 900 Wireless Transmitter,	0-500 psi / 0-35 bar
STGW974	Dual Head Gage Pressure (GP)	0-3000 psi / 0-210 bar
STDW924	Series 900 Wireless Transmitter.	0-400" H <sub>2</sub> O / 0-1000 mbar
STDW930	Differential Pressure (DP)	0-100 psi / 0-7 bar
STDW974	A SECTION OF CODE IN CODE IN CODE IN	0-3000 psi / 0-210 bar
STGW94L	-	0-500 psi / 0-35 bar
STGW97L	Series 900 Wireless Transmitter.	0-3000 psi / 0-210 bar
STGW98L	- In-Line Gage & Absolute Pressure	0-6000 psi / 0-415 bar
STGW99L	C Mark Contraction Contraction	0-10,000 psig / 0-690 bar
STAW94L		0-500 psi / 0-35 barA 0- 400" H <sub>2</sub> O/ 0- 1000 mbar Compound
STFW924	Flanged Series 900 Wireless Pressure Transmitter	Characterized
STFW932		0-100 psi/ 0-7 bar Compound Characterized
STRW93D	Series 900 Wireless Transmitter, Dual Pressure & Gage Pressure	0- 2700" H <sub>2</sub> O/ 0- 7 bar Compound Characterized
STRW94G	Remote Seals	0- 500 psi/ 0- 35 bar
STFW92F	In-Line Flanged Series 900	0- 400° H <sub>2</sub> O/ 0- 1000 mbar
STFW93F	Wireless Transmitter	0- 100 psi/ 0- 7 bar
STDW120	The second day last and could all	0- 400" H <sub>2</sub> O/ 0- 1000 mbar
STDW125	Series 100 Wireless Transmitter,	0- 600° H <sub>2</sub> O/ 0- 1500 mbar
STDW130	Differential Pressure (DP)	0- 100 psi/ 0- 7 bar
STDW170		0- 3000 psi/ 0-210 bar
STGW14L		0- 500 psi/ 0- 35 bar
STGW17L	Series 100 Wireless Transmitter, In-Line Gage Pressure	0- 3000 psi/ 0- 210 bar
STGW18L	In-Line Gage Pressure	0- 6000 psi/ 0- 415 bar
STGW19L	Series 100 Wireless Transmitter,	0- 10000 psi/ 0- 690 bar
STAW14L	In-Line Absolute Pressure	0- 500 psia/ 0- 35 barA
STAW140	Series 100 Wireless Transmitter, Single Head Absolute Pressure	0- 500 psia/ 0- 35 barA
STFW128		0- 400" H <sub>2</sub> O/ 0- 1000 mbar Compound Characterized
STFW132	Flanged Series 100 Wireless	0- 100 psi/ 0- 7 bar Compound Characterized
STFW12F	Pressure Transmitter	0- 400" H <sub>2</sub> O/ 0- 1000 mbar
STFW13F		0- 100 psi/ 0- 7 bar
STFW14F		0- 600" H <sub>2</sub> O/ 0- 1500 mbar
STRW12D	Parios 100 Wirelass Transmitter	0- 400" H <sub>2</sub> O/ 0- 1000 mbar Compound Characterized
STRW13D	Series 100 Wireless Transmitter, Dual Pressure, Gage Pressure and	0- 100 psi/ 0- 7 bar
STRW14A	- Absolute Remote Seals	0- 500 psia/ 0- 35 barA
STRW14G		0- 500 psi/ 0- 35 bar
STRW17G		0- 100 psi/ 0- 7 bar
STTW400	Wireless Temperature Transmitter	Transmitter Only with Remote Sensors: 3 T/C's, or 2 RTD's
		50036277

Model		Description
STTW401	Wireless Temperature and Digital Input Transmitter	Transmitter Only with Remote Sensors: 1 T/C AND 2 Digital Inputs
STXW500	Wireless Digital Input Transmitter	Three DI (Switch) Inputs
STUW700	Wireless Universal I/O Interface	Three Inputs: 4-20 mA Analog, T/C's, or DI (Switch)
STUW701	Wireless Universal I/O Interface	Two Inputs: 4-20 mA Analog, T/C or DI and One Digital Output (Solid State)
STTW820 STTW830 STTW840	Wireless Temperature Transmitter	Transmitter Integrally Mounted to Thermowell or Probe Assembly
STIW600	Wireless High Level Input Interface	4-20 mA Analog Input
CETW6000M-W	SmartCET Wireless Transmitter, Corrosion Monitoring	Millivolt Input from Remote Mounted Corrosion Probe
CETW6000M-D	SmartCET Corrosion Data Logger	Millivolt Input from Remote Mounted Corrosion Probe, Data via IrDA Port *
γ parameters for re μF, La = 0.1 mH.	mote antennas, cables & lightning an	restor:
		restor:
μF, La = 0.1 mH.	eywell 🆄	50036277







## 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)

<u>hfs-tac-</u> support@honeywell.com

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(TAC) <u>hfs-tac-</u> <u>support@honeywell.com</u>

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Email: (Sales) ask-ssc@honeywell.com or (TAC) <u>hfs-tac-</u> <u>support@honeywell.com</u>

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