

SmartLine Wireless Differential Pressure Transmitter Specification

34-SW-03-01, August 2019

Models:

STDW810	0 to 10 in H2O	0 to 25 mbar
STDW820	0 to 400 in H ₂ O	0 to 1,000 mbar
STDW830	0 to 100 psi	0 to 7,000 mbar
STDW870	0 to 3,000 psi	0 to 210,000 mbar

Introduction

SmartLine Wireless Pressure continues the evolution of Honeywell's wireless transmitter product offering and provides the latest critical advancements to support wireless use for monitoring and control.

With over 14 years of industrial wireless experience, the SmartLine Wireless Pressure builds upon the current XYR 6000 product porfotlio while also being able to operate seamlessly in the same wireless network. Similar to the XYR 6000 wireless transmitter, the SmartLine Wireless product line is part of the Honeywell OneWireless™ system and is ISA100 - ready.

SmartLine Wireless Pressure transmitters also leverage SmartLine technology in the incorporation of the enhanced SmartLine Pressure meter body. By utilizing the same meter body as in the non-wireless pressure product offering, users get the best-in-class performance, and a reduction in spares inventory while also taking advantage of existing familiarity and knowledge.

Of course, SmartLine Wireless Pressure transmitters feature all the advantages of wireless transmitters like easy access of data from remote and hazardous thus safeguarding plant personnel from unnecessary exposure, or where running wire is cost prohibitive. Without wires, transmitters can be installed and operational in minutes, quickly providing information back to your system and thus start delivering on project ROI.



Figure 1 — SmartLine Wireless Differential Pressure Transmitters

Previous generation transmitters primarily were applied to monitoring applicaions but experienced users know that Honeywell's wireless products are as reliable, secure, and safe as their wired counterparts.

With this knowledge, users are now looking for wireless transmitters for use in specific control applications.

SmartLine Wireless introduces a step change in performance and most notably, performance suitable for control. SmartLine Wireless performance is improved in these ways:

- Fast ½ second publication rate
- Built-in additional noise reduction
- More powerful 4 dBi integral antenna
- Good battery life performance even at ½ second publication rate.

SmartLine Wireless Pressure retains the following desirable features from the XYR 6000 product offering:

- Mesh or non-mesh configuration within each transmitter
- Generic, off-the-shelf lithium ion battery.
- Two "D" size batteries for longer life.
- Choice of over-the-air or local provisioning (network security join key)
- Over-the-air firmware upgrade capability
- Unique, encrypted provisioning key for better security
- Remote and integral antenna options
- 24 VDC power option
- Publication rates of 1, 5, 10, or 30 seconds, plus new selections of ½ sec, and 1, 5, 15, 30, 60 minutes
- Transmitter range (integral antenna) of 1150 feet (350m) under ideal conditions.

The STDW800 differential pressure series can be used with any primary flow element to provide proven, repeatable flow measurement.

Span & Range Limits:

Model	URL	LRL	Max Span	Min Span	
	"H₂O	"H₂O (mbar)	"H₂O	"H₂O	
	(mbar)		(mbar)	(mbar)	
STDW810	10 (25)	-10 (-25)	10 (25)	0.1	
				(0.25)	
STDW820	400	-400	400	1.0 (2.5)	
	(1000)	(-1000)	(1000)		
Model	psi (bar)	psi (bar)	psi (bar)	psi (bar)	
STDW830	100	-100	100 (7.0)	1 (0.07)	
	(7.0)	(-7.0)			
STDW870	3000	-100	3000	30 (2.1)	
	(210)	(-7.0)	(210)		

SmartLine Wireless Features

Local and over-the-air provisioning capability. All Honeywell wireless devices feature a secure method to join the local wireless network, also known as provisioning. SmartLine Wireless transmitters feature two methods to provision a transmitter onto the network which are either by using a handheld device to locally communicate through the IR interface or remotely using the over-the-air function. Over-the-air provisioning is managed by the OneWireless gateway, Wireless Device Manager (WDM).

In either method, the communication of secure, unique provisioning keys is one of the main factors to prevent against unintended access. Honeywell's security keys are unique for each device from the factory, never made visible, always encrypted, and uniquely generated from the gateway that manages the deployed network.

Over-the-air firmware updates. Once joined as a member of your OneWireless network, the WDM can download new transmitter firmware releases to each SmartLine Wireless transmitter over the wireless network. Locating and accessing the transmitter locally is not required thus saving time and keeping your personnel in a safe environment.

Mesh and non-mesh capability. All SmartLine Wireless transmitters can be configured to operate in either a mesh network or a star (non-mesh) network. The configuration is specific for each wireless transmitter and thus the network can consist of a mixture of meshing and non-meshing devices. Non-meshing is typically desirable for deterministic communications which is preferred for control.

Transmission power setting. To comply with local and regional requirements, SmartLine Wireless transmitters are set at the factory to the maximum transmission power setting allowed for the country of use.

Non-proprietary battery. Sourcing lithium thionyl chloride batteries is much simpler since SmartLine Wireless utilizes commercial off-the-shelf batteries. Please see the list of approved battery manufacturers later in this specification. Batteries are housed in an IS-approved battery compartment making battery changes safe and easy.

Backward compatibility. SmartLine Wireless transmitters can join existing OneWireless networks and interoperate with existing XYR 6000 wireless transmitters or other ISA100 Wireless compliant transmitters or networks.

OneWireless Network Features

The core of the Honeywell wireless solution is the OneWireless Network which consists a gateway, access point(s), and field routers.

The Wireless Device Manager (WDM) serves as the gateway function and in this role, manages the communication from the wireless field devices to the process control application. Typically, the WDM connects logically to the process control network at Level 2 (Purdue model) or the wireless DMZ. As the wireless network manager, the WDM provides easy access to the entire wireless network through a browser-based user interface. The Honeywell WDM can manage devices communicating over the ISA100 Wireless protocol and the Wireless HARTTM protocol, with both types of devices operating in real-time under a single network.

The ability to deploy redundant WDMs improves reliability and ensures no loss of process data, which is a fundamental requirement for control applications.

The Field Device Access Point (FDAP) serves in two roles in the OneWireless network infrastructure: 1) an access point, and as 2) a field router. As an access point, the FDAP connects directly to the WDM via Ethernet LAN cable. More than one access point is permitted and, when more than one is present, it ensures dual path for communications into the WDM from the field devices. As a field router, the FDAP located in the field would communicate to the FDAP acting as an access point. Using the FDAP as a router is more efficient than using field devices as routers since FDAPs are line powered devices requiring no battery changes, and the FDAP offers greater range.

FDAPs can also mesh and thus allows additional flexibility in the setup of the wireless network to fit wireless network performance requirements (typically in terms of reliable communications, performance, and future growth). The choice of a non-meshing network may be desirable for decreased communication latency which a FDAP serving as a field router helps ensures.

Wireless Specifications

Parameter	Description		
Wireless	2,400 to 2,483.5 MHz (2.4 GHz) Industrial, Scientific and Medical (ISM) band		
Communication	DSSS - Direct Sequential Spread Spectrum per FCC 15.247 / IEEE 802.15.4 2006		
	Every data packet transmitted in either direction is verified (CRC check) and acknowledged by the receiving device.		
	USA – FCC Certified		
	Canada – IC Certified		
	European Union – Radio Equipment Directive compliant		
DSSS RF Transmitter Power	NA Selection –100 mW (20.0 dBm) maximum EIRP including antenna for USA and Canadian locations.		
	EU Selection – 63 mW (18.0 dBm) maximum EIRP including antenna per RTTE / ETSI for EU locations. Compliant to ETSI EN 300 328 wireless standard		
Data	PV Publish Cycle Time: Configurable as 0.5, 1, 5, 10, 30 seconds, plus 1, 5, 15, 30, 60 minutes		
	Rate: 250 Kbps		
Antennas	Integral – 4 dBi omnidirectional monopole (default selection) Remote – 8 dBi omnidirectional monopole with up to two 10 m cables and lightning surge arrester		
	Remote – 14 dBi directional parabolic with up to two 10 m cables and lightning surge arrester.		
Signal Range	Nominal 350 m (1,150 ft) between field transmitter and infrastructure unit (e.g. FDAP) when using 4 dBi Integral antenna with a clear line of sight*		

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

Specifications

Operating Conditions - All Models

Parameter	Con (at	erence dition zero atic)	Rated C	Condition	Operative Limits		Transportation and Storage	
	°C	°F	°C	°F	°C	°F	°C	°F
Ambient Temperature ⁵	25 ±1	77 ±2	-40 to 85	-40 to 185	-40 to 85	-40 to 185	-55 to 120	-67 to 248
Ambient Temperature LCD Display visible range	25 ±1	77 ±2	-40 to 85	-40 to 185				
Meter Body Temperature	25 ±1	77 ±2	-40 to 110 ¹	-40 to 230 ¹	-40 to 125	-40 to 257	-55 to 120	-67 to 248
Humidity %RH	10	to 55	0 to	100	0 to	100	0 to	100
Vacuum Region - Minimum Pressure All Models (except STDW810) mmHg absolute in H ₂ O absolute	Atmospheric 25 Atmospheric 13			2 (short term²) 1 (short term²)				
Maximum Allowable Working Pressure (MAWP) 3,4 (STDW800 products are rated to Maximum Allowable Working Pressure. MAWP depends on approval agency and transmitter materials of construction.)	Standard: STDW810 = 50 psi, 3.45 bar STDW820, STDW830, and STDW870 = 4,500 psi, 310.2 bar Optional: STDW820, STDW830, and STDW870 = 6,000 psi, 413.7 bar Static Pressure Limit = Maximum Allowable Working Pressure (MAWP) = Overpressure Limit							
Vibration	Maximum of 4g over 15 to 200Hz.							
Shock	Maximum of 40g.							
Power	Commercially available, non-proprietary 3.6V Lithium thionyl chloride (LiSOCI2) batteries, non-rechargeable, size D. Approved list of the manufacturer models: 1. Xeno Energy XL-205F 2. Eagle Picher PT-2300H 3. Tadiran TL-5930/s Battery pack-only option is available. 24 VDC power option. For Non I.S. application: 16 to 28 VDC Input range, max input current 100mA. For I.S. application: Barrier in accordance with the control drawing required, entity parameters 30V, 120mA, 0.9W.							

¹ For CTFE fill fluid, the rating is -15° C to 110° C (5° F to 230° F); for the STDW820 model at temperatures below -15° C (5° F) the URL is reduced to 100° H₂O.

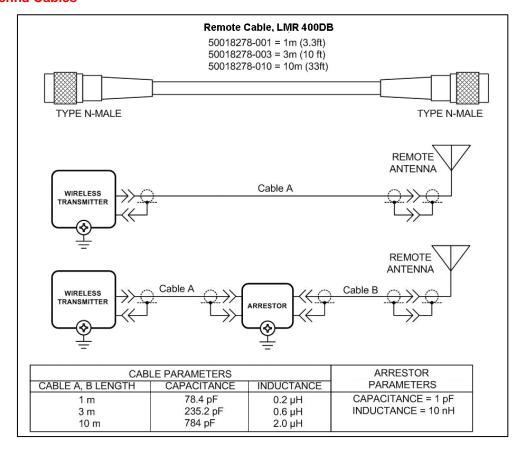
²Short term equals 2 hours at 70°C (158°F)

³ MAWP applies for temperature range –40 to 125°C. However Static Pressure Limit is de-rated to 3000 psi from -26°C to -40°C. Use of graphite o-rings de-rates transmitter to 3625 psi. Use of Adapter with graphite o-rings de-rates transmitter to 3000 psi.

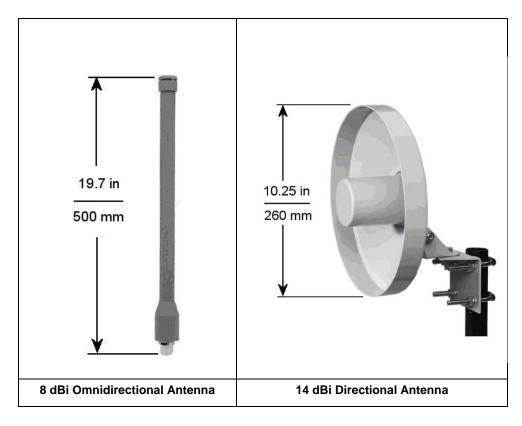
⁴ Consult factory for MAWP of SmartLine Wireless transmitters with CRN approval.

⁵ The Ambient Limits shown are for Ordinary Non-Hazardous locations only. Refer to the Hazardous Locations Approvals section for the Ambient Limits when installed in Hazardous Locations.

Remote Antenna Cables



Remote Antennas



Performance Specifications

Performance under Rated Conditions* - Model STDW810 (0 to 10 inH₂O / 25 mbar)

Parameter	Description				
Upper Range Limit in H₂O mbar	0 (39.2°F/4°C is standard reference temperature for in H ₂ O range.)				
Minimum Span in H₂O mbar	0.1 0.25				
Zero Elevation and Suppression	-5 to +100% URL				
Accuracy (Reference – Includes combined effects of linearity, hysteresis, and repeatability) Accuracy includes residual error after averaging successive readings.					
Zero Temperature Effect per 28°C (50°F)	$\pm 0.20\%$ of span. For URV below reference point (2 in H ₂ O), effect equals: $\pm 0.20 \left(\frac{2 \text{ inH}_2 \text{O}}{\text{span inH}_2 \text{O}} \right)$ or $\pm 0.20 \left(\frac{5 \text{ mbar}}{\text{span mbar}} \right)$ in % of span				
Combined Zero and Span Temperature Effect per 28°C (50°F)	$ \begin{array}{l} \pm 0.225\% \text{ of span.} \\ \text{For URV below reference point (2 in H}_2\text{O}), \text{ effect equals:} \\ \pm \left[0.025 + 0.20 \left(\frac{2 \text{ inH}}_2\text{O}}{\text{span inH}}_2\text{O} \right) \right] \text{ or } \pm \left[0.025 + 0.20 \left(\frac{5 \text{ mbar}}{\text{span mbar}} \right) \right] \text{ in \% of span} \\ \end{array} $				
Zero Static Pressure Effect per 1000 psi (70 bar)	$ \begin{array}{l} \pm 0.075\% \text{ of span.} \\ \text{For URV below reference point (2 in H}_2\text{O}), \text{ effect equals:} \\ \pm \left[0.0125 + 0.0625 \left(\frac{2 \text{ inH}_2\text{O}}{\text{span inH}_2\text{O}} \right) \right] \text{ or } \pm \left[0.0125 + 0.0625 \left(\frac{5 \text{ mbar}}{\text{span mbar}} \right) \right] \text{ in \% of span.} \\ \text{span.} \end{array} $				
Combined Zero and Span Static Pressure Effect per 1000 psi (70 bar)	$ \begin{array}{l} \pm 0.15\% \text{ of span.} \\ \text{For URV below reference point (2 in H}_2\text{O}), \text{ effect equals:} \\ \pm \left[0.0875 + 0.0625 \left(\frac{2 \text{ inH}}_2\text{O}}{\text{span inH}_2\text{O}} \right) \right] \text{ or } \pm \left[0.0875 + 0.0625 \left(\frac{5 \text{ mbar}}{\text{span mbar}} \right) \right] \text{ in \% of span.} \\ \text{span.} \end{array} $				

^{*} Performance specifications are based on reference conditions of 25°C (77°F), zero (0) static pressure, 10 to 55% RH, and 316L Stainless Steel barrier diaphragm.

Performance under Rated Conditions* - Model STDW820 (0 to 400 inH₂O / 1000 mbar)

Parameter	Description			
Upper Range Limit in H ₂ O mbar	400 (39.2°F/4°C is standard reference temperature for in H ₂ O range.) 1,000			
Minimum Span in H ₂ O mbar	2.5			
Zero Elevation and Suppression	-5 to +100% URL			
Accuracy (Reference – Includes combined effects of linearity, hysteresis, and repeatability) Accuracy includes residual error after averaging successive readings.				
Zero Temperature Effect per 28°C (50°F)	±0.20% of span. For URV below reference point (50 in H ₂ O), effect equals:			
	$\pm 0.20 \left(\frac{50 \text{ inH }_2\text{O}}{\text{span inH }_2\text{O}} \right) \text{ or } \pm 0.20 \left(\frac{125 \text{ mbar}}{\text{span mbar}} \right) \text{ in \% of span}$			
Combined Zero and Span Temperature Effect per 28°C (50°F)	$\pm 0.225\%$ of span. For URV below reference point (50 in H ₂ O), effect equals: $\pm \left[0.025 + 0.20 \left(\frac{50 \text{ inH }_2\text{O}}{\text{span inH }_2\text{O}}\right)\right] \text{ or } \pm \left[0.025 + 0.20 \left(\frac{125 \text{ mbar}}{\text{span mbar}}\right)\right] \text{ in \% of span}$			
Zero Static Pressure Effect per 1000 psi (70 bar)	$ \begin{array}{l} \pm 0.075\% \text{ of span.} \\ \text{For URV below reference point (50 in H}_2\text{O}), \text{ effect equals:} \\ \pm \left[0.0125 + 0.0625 \left(\frac{50 \text{ inH}_2\text{O}}{\text{span inH}_2\text{O}} \right) \right] \text{ or } \pm \left[0.0125 + 0.0625 \left(\frac{125 \text{ mbar}}{\text{span mbar}} \right) \right] \text{ in \% of span.} \\ \end{array} $			
Combined Zero and Span Static Pressure Effect per 1000 psi (70 bar)	$ \begin{array}{l} \pm 0.15\% \text{ of span.} \\ \text{For URV below reference point (50 in H}_2\text{O}), \text{ effect equals:} \\ \pm \left[0.0875 + 0.0625 \left(\frac{50 \text{ inH}_2\text{O}}{\text{span inH}_2\text{O}} \right) \right] \text{ or } \pm \left[0.0875 + 0.0625 \left(\frac{125 \text{ mbar}}{\text{span mbar}} \right) \right] \text{ in \% of span.} \\ \end{array} $			

^{*} Performance specifications are based on reference conditions of 25°C (77°F), zero (0) static pressure, 10 to 55% RH, and 316L Stainless Steel barrier diaphragm.

Performance under Rated Conditions* - Model STDW830 (0 to 100 psi/7,000 mbar)

Parameter	Description		
, ,	ar 7		
	ar 0.07		
Zero Elevation and Suppress	ion -5 to +100% URL.		
Accuracy (Reference – Includes combined effects of linearity, hysteresis, and repeatability) (Accuracy includes residual error after averaging successive readings.			
Zero Temperature Effect per 28°C (50°F)	$\pm 0.05\%$ of span. For URV below reference point (30 psi), effect equals: $\pm 0.05 \left(\frac{30 \text{ psi}}{\text{span psi}} \right)$ or $\pm 0.05 \left(\frac{2 \text{ bar}}{\text{span bar}} \right)$ in % of span		
Combined Zero and Span Temperature Effect per 28°C (50°F)			
Zero Static Pressure Effect p 1000 psi (70 bar)			
Combined Zero and Span Sta Pressure Effect per 1000 psi bar)	·		

^{*} Performance specifications are based on reference conditions of 25°C (77°F), zero (0) static pressure, 10 to 55% RH, and 316L Stainless Steel barrier diaphragm.

Performance under Rated Conditions* - Model STDW870 (0 to 3,000 psi/210 bar)

Parameter	Description			
Upper Range Limit psi bar	3,000 210			
Minimum Span psi bar	30 2.1			
Zero Elevation and Suppression	-0.6 and +100% URL.			
Accuracy (Reference – Includes combined effects of linearity, hysteresis, and repeatability)	±0.125% of calibrated span or upper range value (URV), whichever is greater, terminal based. For URV below reference point (300 psi), accuracy equals:			
Accuracy includes residual error after averaging successive readings.	$\pm \left[0.025 + 0.10 \left(\frac{300 \text{ psi}}{\text{span psi}} \right) \right] \text{ or } \pm \left[0.025 + 0.10 \left(\frac{21 \text{ bar}}{\text{span bar}} \right) \right] \text{ in \% of span}$			
Zero Temperature Effect per 28°C	±0.10% of span.			
(50°F)	For URV below reference point (500 psi), effect equals:			
	$\pm 0.10 \left(\frac{500 \text{ psi}}{\text{span psi}} \right) \text{ or } \pm 0.10 \left(\frac{35 \text{ bar}}{\text{span bar}} \right) \text{ in % of span}$			
Combined Zero and Span Temperature Effect per 28°C (50°F)	±0.15% of span. For URV below reference point (500 psi), effect equals:			
	$\pm \left[0.05 + 0.10 \left(\frac{500 \text{ psi}}{\text{span psi}} \right) \right] \text{ or } \pm \left[0.05 + 0.10 \left(\frac{35 \text{ bar}}{\text{span bar}} \right) \right] \text{ in \% of span}$			
Zero Static Pressure Effect per	±0.075% of span.			
1000 psi (70 bar)	For URV below reference point (500 psi), effect equals:			
	$\pm \left[0.0125 + 0.062 \left(\frac{500 \text{ psi}}{\text{span psi}}\right)\right] \text{ or } \pm \left[0.0125 + 0.062 \left(\frac{35 \text{ bar}}{\text{span bar}}\right)\right] \text{ in \% of span}$			
Combined Zero and Span Static Pressure Effect per 1000 psi (70	±0.15% of span. For URV below reference point (500 psi), effect equals:			
bar)				

^{*} Performance specifications are based on reference conditions of 25°C (77°F), zero (0) static pressure, 10 to 55% RH, and 316L Stainless Steel barrier diaphragm.

Performance Under Rated Conditions - All Models

Parameter	Description
Electromagnetic Compatibility	IEC 61326-1
Lightning Surge Arrester (Remote antenna only)	Frequency range: $0-3$ GHz, 50 Ohms, VSWR = 1:1.3 Max, Insertion Loss = 0.4 dB Connectors Type N Female, Max, Gas Tube Element: 90 V \pm 20%, Impulse Breakdown Voltage = 1,000 V \pm 20%, Maximum Withstand Current = 5 KA.
CE Conformity	These transmitters are in conformity with the Radio Equipment Directive, ETSI EN 300 328 V2.1.1 including EMC standard EN61326-1 2013

Physical Specifications

Parameter	Description			
Mounting Bracket	Carbon Steel (Zinc-plated) or Stainless Steel angle bracket or Carbon Steel flat bracket available (standard options).			
Fill Fluid	Silicone DC 200 oil, CTFE (Chlorotrifluoroethylene) or NEOBEE® M-20			
Electronic Housing	Epoxy-Polyester hybrid paint. Low Copper-Aluminum with 1/2" NPT or M20 conduit connections. Meets NEMA 4X (hosedown and corrosion resistant), IP 66/67 (hosedown and submersible to 1m).			
Stainless Steel Housing (option)	316 SS or Grade CF8M, the casting equivalent of 316 SS with M20 or 1/2" NPT conduit connections.			
	If ordered with the Remote Antenna options, the antenna parts are not SS or Marine type cables; the integral antenna uses SS parts.			
Process Connections	1/4-inch NPT; 1/2-inch NPT with adapter. Process heads meet DIN 19213 requirements.			
Mounting	Can be mounted in virtually any position using the standard mounting bracket. Mounting should result in the antenna being vertically oriented. Bracket is designed to mount on 2-inch (50 mm) vertical or horizontal pipe. See Figure 2.			
Dimensions	See Figure 3, Figure 4 and Figure 5.			
Net Weight	Approximately 11 pounds (5 Kg) ¹			

Add 8.0 pounds (3.6 kg) to any model equipped with stainless steel housing option (Model Selection Guide Table IV selection M or N)

Materials Specifications (see model selection guide for availability/restrictions with various models)

Parameter	Description		
Barrier Diaphragms Material	316L SS and Hastelloy® C-276 ²		
Process Head Material	316 SS ³		
Vent/Drain Valves & Plugs 1	316 SS ³		
Head Gaskets	Teflon or PTFE (glass filled) is standard.		
Meter Body Bolting	Carbon Steel (Zinc plated) standard. Options include 316 SS and NACE A286 SS bolts		
Optional Adapter Flange and Bolts	Adapter flange material is 316 SS. Bolt material for flanges is dependent on process head bolts material chosen. Standard adaptor seal material is glass-filled PTFE		

¹ Vent/Drains are sealed with Teflon®

² Hastelloy C-276 or UNS N10276

³ Supplied as 316 SS or as Grade CF8M,the casting equivalent of 316 SS.

Mounting and Dimensions

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

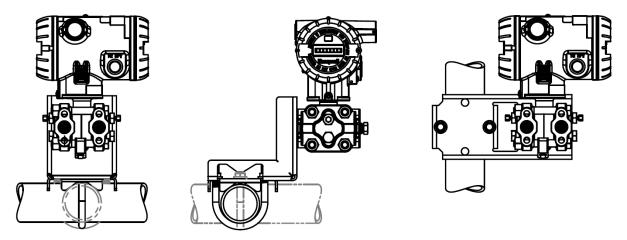


Figure 2 — Examples of typical mounting positions (antenna omitted)

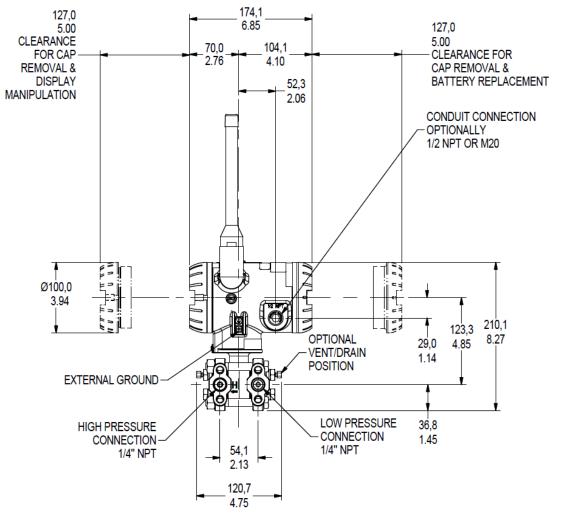


Figure 3 – Informational and dimensional drawing (4 dBi antenna shown)

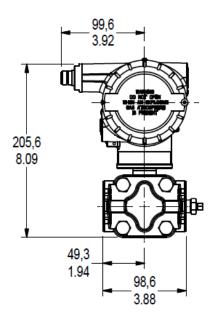


Figure 4 — Typical mounting dimensions for STDW810, STDW820, STDW830 and STDW870 (remote antenna adaptor shown, rear view)

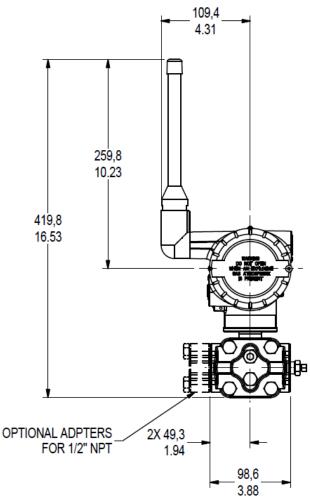


Figure 5 — Typical mounting dimensions for STDW810, STDW820, STDW830 and STDW870 (4 dBi antenna shown, rear view)

Hazardous Locations Approvals
Refer to control drawing 50136123, in the User's manual #34-SW-25-01, for intrinsically safe installation details

	rawing 50136123, in the User's mai	nual #34-SW-25-01, 1		ly safe ins	
AGENCY	TYPE OF PROTECTION		Ambient		Product
			Temperat	ture	Applicability
	Intrinsically Safe:				Pressure
	Class I; Division 1; Groups A, B,				
	Class II, Division 1, Groups E, F,	, G;			
	Class III, Division 1; T4 Class I. Zone 0 AEx ia IIC T4 Ga		See tables below		
	Class I Zone 2 AEx ic IIC T4 Ga				
	Ex ia IIC T4 Ga				
	Ex ic IIC T4 Gc				
	Non Incendive:				Pressure
	Class I; Division 2; Groups A, B,	C. D:			11000010
	Class II, Division 2, Groups E, F,				
	Class III, Division 2, T6T4	, -,	See tables	below	
	Ex nA [ia Ga] IIC T6T4 Gc				
	Class I, Zn 2, AEx nA [ia Ga] IIC	T6T4 Gc			
	Explosion-Proof/ Flameproof/Dust Proof:				Pressure
CSA	Class I, Division 1; Groups A, B, C, D;				
	· · · · · · · · · · · · · · · · · ·	lass II, Division 1, Groups E, F, G;			
(USA and	Class III, Division 1; T6T4		See tables	below	
Canada)	Ex db [ia Ga] IIC T6T4 Gb		000 100100	50.011	
	Ex tb [ia Da] IIIC T95T125 Db				
	Class I, Zn 1 AEx db [ia Ga] IIC				
	Class II, Zn 21, AEx tb [ia Da] III				
	Enclosure: Type 4X/ IP66/ IP67 Standards Used:				
	CSA C22.2 No. 0-10	CSA C22.2 No.25-17		CCA C0	2.2 No.30-M1986
	CSA C22.2 No. 0-10 CSA C22.2 No.94.2-15				SA C22.2 No.157-92
	CSA C22.2 No.213-16	CAN/CSA C22.2 No.0			
	CAN/CSA C22.2 No.60079-1:16	CAN/CSA C22.2 No.60079-11:1			
	CAN/CSA C22.2 No.60079-31:15	ANSI/ISA 12.12.01-2			
	ANSI/UL 60079-1-2015	ANSI/UL 60079-11-2			L 60079-15-2013
	ANSI/UL 60079-31-2015	FM 3600 – Dec 2011		FM 3615 – Aug 2006	
	FM 3616 – Dec 2011	ANSI/IEC 60529 – 2004		ANSI/UL 913-2015	
	ANSI/UL 50E-2015	ANSI/UL 61010-1-20	16		

AGENCY	TYPE OF PROTECTION	Ambient Ten	nperature	Product Applicability	
	Intrinsically Safe: IS Class I, II, III; Division 1; Groups Class I, Zone 0 AEx ia IIC Ga T4 Class I, Zone 2[0] AEx ic [ia Ga] IIC		-40 °C to +85 °C	C	Pressure
	Non Incendive: NI-AIS Class I; DIV 2; Groups ABCD; T5T6 Class I, Zone 2[0] AEx nA [ia Ga] IIC Gc; T5T6		-40 °C to +85 °C : T5 -40 °C to +70 °C : T6		Pressure
FM ApprovalsTM (USA)	1 1 1 P-A1S 1 1366 11 111 1 1 1 1 1 1 1 1 1 1 1 1 1			Pressure	
	Standards Used: FM 3600:2018 ANSI/ISA 60079-0: 2013 ANSI/ ISA 60079-15: 2013 ANSI/ NEMA 250: 2008	FM 3810: 2018 ANSI/ ISA 60079-31: 2015		FM 3611: 20 FM 3616: 20 ANSI/ ISA 6 ANSI/ ISA 6	011 0079-11: 2014

AGENCY	TYPE OF PROTECTION	Ambient Temperature	Product Applicability
	Intrinsically Safe: II 1 G Ex ia IIC T4 Ga II 3 G Ex ic IIC T4 Gc	See tables below	Pressure
ATEV	Flameproof / Dust Proof: II 2[1] G Ex db [ia Ga] IIC T6T4 Gb II 2[1] D Ex tb [ia Da] IIIC T95CT125C Db	See tables below	Pressure
ATEX	Non Incendive: II 3[1] G Ex ec [ia Ga] IIC T6T4 Gc	See tables below	Pressure
	Enclosure: IP66/ IP67	1	
	Standards Used:	EN 00070 4 0044	5 11,000 7 0,44,0040
	EN 60079-0 : 2012 + A1 EN 60079-26 : 2006	EN 60079-1 : 2014 EN 60079-7 : 2015	EN 60079-11 : 2012 IEC 60079-31 : 2013

AGENCY	TYPE OF PROTECTION	Ambient Temperature	Product Applicability*
	Intrinsically Safe: Ex ia IIC T4 Ga Ex ic IIC T4 Gc	See tables below	Pressure
IFOE.	Flameproof / Dust Proof: Ex db [ia Ga] IIC T6T4 Gb Ex tb [ia Da] IIIC T95CT125C Db	See tables below	Pressure
IECEx	Non Incendive: Ex ec [ia Ga] IIC T6T4 Gc	See tables below	Pressure
	Enclosure: IP66 /IP67		
	Standards Used:		
	IEC 60079-0 : 2011 IEC 60079-26 : 2006	IEC 60079-1 : 2014 IEC 60079-7 : 2015	IEC 60079-11 : 2011 IEC 60079-31 : 2013

For Intrinsic Safety Installations:

The applicable temperature class, ambient temperature (Ta) and process temperature (Tp) range of the equipment when installed with type protection "Ex ia" is as follows:

Protection Type	Temperature Class	
	T4	
Ex ia	Ta = -40 to 80°C	
	Tp = -40 to 125°C	
Exic	Ta = -40 to 85°C	
	Tp = -40 to 125°C	

For Flameproof, Dustproof, increased safety and non incendive Installations:

The applicable temperature class, ambient temperature (Ta) and process temperature (Tp) range of the equipment when installed with type protection "Ex db", "Ex ec", "Ex nA" is as follows:

Protection Type	Temperature Class				
	T4	T5	T6		
Ex db	Ta = -40 to 85°C	Ta = -40 to 85°C	Ta = -40 to 75°C		
Ex ec	Tp = -40 to 125°C	Tp = -40 to 100°C	Tp = -40 to 85°C		
Ex nA					

The applicable temperature class, ambient temperature (Ta) and process temperature (Tp) range of the equipment when installed with type protection "Ex tb" is as follows:

Protection Type	Temperature Class	Temperature Class		
	T125C	T95C		
Ex tb	Ta = -40 to 85°C	Ta = -40 to 85°C		
Ex nA	$Tp = -40 \text{ to } 125^{\circ}C$	Tp = -40 to 100°C		
Ex ec		·		

Transmitter Options

(indicated selection code is shown)

ISA100 Wireless Release Selections (A or B)

OneWireless R2xx represents the previous releases whereas R3xx is the current release. A OneWireless system with R3xx firmware can host R2xx and R3xx devices. Please select the option to match the targeted OneWireless system.

Remote Antenna and Cables (M or D)

The user can select one of the optional remote antennas listed. The selection of the antenna option automatically includes the remote antenna adapter.

To complete the option selection, one of the remote antenna cables (1, 2, or 3) must also be selected.

Lightning (Surge) Diverter and Cables (1, 2, or 3)

The lightning surge diverter options includes the surge diverter and cable. The diverter features Type N connections (female) on both ends. The remote antenna adapter is not included.

Remote Antenna Adapter (A)

This option provides an adapter to be inserted into the opening where the integral antenna normally connects. The adapter is designed to connect to a remote antenna that the user supplies. It features a female, Type N connection.

Standard Diagnostics plus Anti-Alias Filter (3)

This option enables the Anti-Alias filter option which attenuates the higher frequencies and helps to prevent aliasing components from being sampled.

Destination Country (CA, EU, or US)

This selection sets the transmission power at the factory to comply with the installation country location.

Custom Configuration (C)

Customer specified configuration parameters are programmed into the transmitter at the factory. Configuration information needs to be communicated to Honeywell Order Management at time of order entry.

Additionally, the Honeywell OneWireless user interface is accessible through any browser and thus all configurable parameters are visible and can be edited.

Custom Calibration (B)

Custom calibration would input customer specified LRV and URV values, and check linearity. LRV and URV information needs to be communicated to Honeywell Order Management at time of order entry.

Mounting Brackets (1, 3, 5, or 7)

The angle mounting bracket is available in either zinc-plated carbon steel or 316 stainless steel. These are suitable for horizontal or vertical mounting on a two-inch (50 millimeter) pipe, as well as wall mounting.

An additional flat mounting bracket is also available in carbon steel and 316 stainless steel for two-inch (50 millimeter) pipe mounting.

Tagging (Option 1 or 2)

The choice of 1 or 2 stainless steel wired-on tags is available. Each tag can accommodate additional data of up to 4 lines of 28 characters. The number of characters includes spaces.

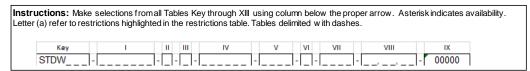
Note that the standard nameplate on the meter body contains the serial number and body-related data.

Model Selection Guide

Model Selection Guides are subject to change and are inserted into the specifications as guidance only.

Model STDW800 Wireless Differential Pressure Transmitter

Model Selection Guide: 34-SW-16-32 Issue 4



10 (25.0) -10 (-25.0) 10 (25)	0.1 (0.25)	"110 (11 1 1)
	()	" H ₂ O (mbar)
Measurement 400/(1000) -400/(-1000) 400/(1000)	1.0 (2.5)	" H ₂ O (mbar)
Range 100 (7.0) -100 (-7.0) 100 (7.0)	1 (0.07)	psi (bar)
3000 (210) -100 (-7.0) 3000 (210)	30 (2.1)	psi (bar)

Selection	A	vaila	abili	ty
STDW810	\			
STDW820		\		
STDW830			\forall	
STDW870				\forall

TABLE I	METER BODY SELECTIONS					
a. Process Wetted	Process Head	Process Head Material Diaphragm Material				
Heads & Diaphragm Materials	316 Stainles	316L Stainless Steel Hastelloy C-276				
b. Fill Fluid	Silicone Oil 200 Fluorinated Oil CTFE NEOBEE [®] M-20	luorinated Oil CTFE				
c. Process Connection	None 1/2" NPT female					
d. Bolt/Nut Materials	Carbon Steel 316 SS Grade 660 (NACE A286) Bolts & Nuts					
	Head Type	Vent Type	Location	Vent Material		
e. Vent/Drain Type/Location	Single Ended Single Ended Single Ended Dual Ended Dual Ended Dual Ended Dual Ended	None Standard Vent Center Vent Standard Vent Center Vent Std Vent/Plug	None Side Side End End Side/End	None Matches Head Material ¹ Stainless Steel Only Matches Head Material ¹ Stainless Steel Only Matches Head Material ¹		
f. Gasket Material	Teflon [®] or PTFE (Glass	Teflon® or PTFE (Glass Filled)				
g. Static Pressure		Standard Static Pressure - 4500 psig (310 bar) except STDW810: 50 psi (3.5 bar) High Pressure 6000 psi (415 bar)				

E	*	*	*	*
F		*	*	*
_1	*	*	*	*
_2		*	*	*
_4	*	*	*	*
A	*	*	*	*
H	*	*	*	*
C	*	*	*	*
S	*	*	*	*
K	р	р	р	р
1	*	*	*	*
2	*	*	*	*

н		k	k	k
S	*	*	*	*
A_	*	*	*	*
6	*	*	*	*
5	*	*	*	*
4	*	*	*	*
3	*	*	*	*
2	*	*	*	*

¹Except Carbon Steel Heads shall use 316SS Vent/Drain, Plugs & Adapters when required

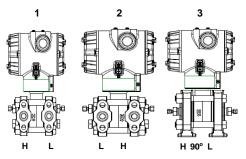


TABLE II		Meter Body & Connection Orientation
Head/Connect Orientation	Reversed	High Side Left, Low Side Right ² /Std Head Orientation Low Side Left, High Side Right ² /Std Head Orientation High Side Left, Low Side Right ² /90 ⁰ Head Rotation

STDW870 STDW830 STDW820 STDW810			\		
1	*	*	*	*	ı
2	*	*	*	*	I
3	h	h	h	h	ı

TABLE III	Agency Approvals (see data sheet for Approval Code Details)
	No Approvals Required
	ATEX and IEC Ex Explosion proof, Intrinsically Safe, Non-incendive & Dustproof
Approvals	c CSA US Explosion proof, Intrinsically Safe, Non-incendive, & Dustproof
	FM Intrinsically Safe, Non-incendive and Dustproof

0	*	*	*	*
Α	*	*	*	*
В	*	*	*	*
Н	*	*	*	*

TABLE IV	TRANSMITTER E	ELECTRONICS SI	ELECTIONS	
. Floritanila	Material	Connection	Paint Color	Ι.
a. Electronic	Epoxy Polyester Hybrid Coated Aluminum	1/2 NPT	Standard (Blue / Gray)	
Housing Material & Connection	Epoxy Polyester Hybrid Coated Aluminum	M20	Standard (Blue / Gray)	L
Type	316 Stainless Steel (Grade CF8M)	1/2 NPT	Standard (no paint)	ı
Туре	316 Stainless Steel (Grade CF8M)	M20	Standard (no paint)	
	Wi	reless Protocol		
o. Output/ Protocol	ISA100 Wireless 2.0 compatible (equivalent	OW R300 or newe	r)	
	ISA100 Wireless 1.0 compatible (equivalent			
		Power Options		
c. Power	Battery Holder Only - No Battery Included			
	Battery Power - Batteries included			
	24 VDC power			4
		ntenna Options		4
	Integral Right-angle, vertical 4 dBi			
d. Antennas	Remote Omnidirectional, 8 dBi			
	Remote Directional, 14 dBi			
	Remote Antenna Adapter only, Type N Conn	ection		
	Remo	ote Antenna Cable		
	None			
e. Remote Antenna Cable	Type N Remote Cable, 1.0 m (required for c	onnection to transn	nitter)	
Antenna Cable	Type N Remote Cable, 3.0 m (required for co	onnection to transn	nitter)	
	Type N Remote Cable, 10.0 m (required for		•	
	, , ,	Diverter and Rem		
	None Eightning Strigg	2.131tor una itom		
f. Surge Diverter	Surge Diverter and Type N Cable (1.0 m)			
and Cable	Surge Diverter and Type N Cable (3.0 m)			
	Surge Diverter and Type N Cable (10.0 m)			

	Carge Diverter and Type IV Cable (10.0 III)		
		1	
TABLE V	CONFIGURATION SELECTIONS	Ì	
	Diagnostics and Applications		
a. Application Software	Standard Diagnostics	1	* * *
Software	Standard Diagnostics plus Anti Alias Filter	3	* * *
	Destination Country	·	
b. Country	Canada	_ CA_	* * *
	European Union (RED compliant countries includes Australia)	_ EU _	* * *
	USA and Puerto Rico	_US_	* * *
c. General	General Configuration		
Configuration	Factory Standard	S	* * *
•			

² Left side/Right side as viewed from the customer connection perspective

 $^{^3}$ NAMUR Output Limits 3.8 - 20.5mAdc can be configured by the customer or select custom configuration Table Vc

STDW870 ___

Bracket Typ Bracket Br	None Carbon S 316 SS Carbon S 316 SS Customer Ta I Tag (Up to 4 lines 26 char/ I Tag (Up to 4 lines 26 char/ embled Conduit Plugs & Acters Required female 316 SS Certified Co	Calibrat Single Calibration ELECTIONS Material teel ag Type //ine) //dapters	ion Qty	STDW820 STDW810 A 0 1 3 5 7 1 2 A0 A2 A6	* * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *
Bracket Typ Bracket Br	Calibrated Range actory Std ACCESSORY SE None Carbon S 316 SS Carbon S 316 SS Customer Ta Tag (Up to 4 lines 26 chard Tag (Up to 5 lines 26 chard Tag (Up to 6 lines 26 chard Tag (Up to 6 lines 26 chard Tag (Up to 7 lines 26 chard Tag (Up to 8 lines 26	Calibrat Single Calibration ELECTIONS Material teel ag Type //ine) //dapters	ion Qty	A 0 1 3 5 7 -1 22A0 -A2	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *
Bracket Typ Bracket Br	ACCESSORY SE ACCESSORY SE None Carbon S 316 SS Carbon S 316 SS Customer Ta Tag (Up to 4 lines 26 chard Tag (Up to 5 chard Tag (Up to 6 lines 26 chard Tag (Up to 7 lines 26 chard Tag (Up to 8 line	Single Calibration ELECTIONS Material teel ag Type //ine) //dapters		0 1 3 5 7 -1 -2 -A0 -A2	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *
Bracket Bracket acket acket tomer tag red Stainless Steel red Stainless Steel Unass duit Plugs or Adapt	None Carbon S 316 SS Carbon S 316 SS Customer Ta I Tag (Up to 4 lines 26 char/ I Tag (Up to 4 lines 26 char/ embled Conduit Plugs & Acters Required female 316 SS Certified Co	Material teel teel dig Type //ine) diapters		1 3 5	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *
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Bracket Bracket acket acket tomer tag red Stainless Steel red Stainless Steel Unass duit Plugs or Adapt	None Carbon S 316 SS Carbon S 316 SS Customer Ta I Tag (Up to 4 lines 26 char/ I Tag (Up to 4 lines 26 char/ embled Conduit Plugs & Acters Required female 316 SS Certified Co	teel ag Type //ine) //ine) dapters		1 3 5	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *
aracket acket tomer tag tred Stainless Steel red Stainless Steel Unass duit Plugs or Adapt T Male to 3/4 NPT F	Carbon S 316 SS Carbon S 316 SS Customer Ta I Tag (Up to 4 lines 26 char/ I Tag (Up to 4 lines 26 char/ embled Conduit Plugs & Acters Required female 316 SS Certified Co	ng Type //ine) //ine) dapters		1 3 5	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *
aracket acket tomer tag tred Stainless Steel red Stainless Steel Unass duit Plugs or Adapt T Male to 3/4 NPT F	316 SS Carbon S 316 SS Customer Ta Tag (Up to 4 lines 26 char/ Tag (Up to 4 lines 26 char/ embled Conduit Plugs & Acters Required remale 316 SS Certified Co	ng Type //ine) //ine) dapters		5 5 7 - 0 - 1 - 2 - A0 _ A2	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *
acket acket tomer tag ired Stainless Steel red Stainless Steel Unassinduit Plugs or Adapt T Male to 3/4 NPT F	Carbon S 316 SS Customer Ta Tag (Up to 4 lines 26 char, Tag (Up to 4 lines 26 char, embled Conduit Plugs & Acters Required emale 316 SS Certified Co	ag Type /line) /line) dapters		5 5 7 - 0 - 1 - 2 - A0 _ A2	* * * * * * * * * * * * * * * * * * *	* * * * * * *
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Unass Induit Plugs or Adapt T Male to 3/4 NPT Fo	embled Conduit Plugs & Adters Required Temale 316 SS Certified Co	dapters		A2	* * n n i	* *
nduit Plugs or Adapt T Male to 3/4 NPT F	ters Required emale 316 SS Certified Co			A2	* * n	
T Male to 3/4 NPT F	emale 316 SS Certified Co	nduit Adapter		A2	n n	* *
				A6		n n
1/2 NPT 316 SS Certified Conduit Plug				n n	n n	
6 SS Certified Cond	duit Plug			A7	m m r	m m
t [®] 4 pin (1/2 NPT) (r	not suitable for X-Proof appl	lications)		A8	n n	n n
t [®] 4 pin (M20) (not s	suitable for X-Proof applicat	ions)		A9	m m r	m m
Cartifications ? Ont	tions: (String in coguence	comma delimited (XX, XX, XX	1			
No additional option		comma delimited (XX, XX, XX,	,)	00	* *	* *
	SO15156 (FC33338) Proce	ess wetted parts only		FG	* *	* *
	` '	ess wetted and non-wetted pa	arte	F7	c c	СС
	I Traceability (FC33341)	233 Welled and non Welled pe	1110	FX	* *	* *
ate of Conformance	* *			F3	* *	* *
Calibration Test Report & Certificate of Conformance (F3399)		F1	* *	* *		
Certificate of Origin (F0195)			F5	* *	* *	
• ,	Certificate (1.5X MAWP) (F3.	392)		TP	* *	* *
	ervice per ASTM G93	,		OX	e e	ее
rtification ¹				PM	* *	*
ed Warranty Addition	nal 1 year			01	* *	* *
Extended Warranty Additional 2 years				02	* *	* *
ou vvarianty Addition	nal 3 years			03	* *	* *
	Extended Warranty Additional 4 years			04	* *	* *
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Restriction Letter	Available Only with		Not Available with	
Restriction Letter	Table	Selection(s)	Table	Selection(s)
			Ic	H
k			ld	S
K			le	1, 2, 3, 5, 6
			=	B- No CRN number available
С	1d	K		
е	lb	_2		
h			le	4,5,6
=			VIIa	1, 3,5,7
m	IVa	D, N		
n	IVa	C, M		
р			II	B- No CRN number available
b		Select only on	e option from this group	

¹The PM option is available on all Smartline Wireless Pressure Transmitter process wetted parts such as process heads, flanges, bushings and vent plugs except plated carbon steel process heads and flanges. PM option information is also available on diaphragms except Gold plated and STGW and STAW inline construction pressure transmitters.

FIELD INSTALLABLE REPLACEMENT PARTS

Description	Kit Number
1/2 NPT cocket plug (ZN plated CS)	50021832-501
1/2 NPT certified conduit plug (SS)	50021832-502
M20 conduit plug (ZN plated CS)	50000547-502
M20 certified conduit plug (SS)	50000547-501
Lightning surge diverter (order cable separately)	50018279-590
IS battery pack	50047517-501
24 VDC external power module	50136118-501
Right-angle elbow assembly for 4dBi antenna, aluminum with gray, pure polyester paint	50030973-503
Right-angle elbow assembly for 4dBi antenna, aluminum with gray, epoxy-polyester paint	50030973-504
Right-angle elbow assembly for 4dBi antenna, stainless steel	50030973-505
Remote omnidirectional antenna, 8 dBi	50018414-501
Remote directional antenna, 14 dBi	50018415-501
Remote antenna adapter, Type N connection	50028364-501
Remote cable for antenna or accessories, Type N (1.0m)	50018278-501
Remote cable for antenna or accessories, Type N (3.0m)	50018278-503
Remote cable for antenna or accessories, Type N (10.0m)	50018278-510
Lithium thionyl chloride batteries (Qty 2)	50026010-501
Lithium thionyl chloride batteries (Qty 4)	50026010-502
Lithium thionyl chloride batteries (Qty 10)	50026010-503

PRODUCT MANUALS

PRODUCT MANUALS	
Description	Part Number
SmartLine Wireless Transmitter User's Manual	34-SW-25-01

All product documentation is available at www.honeywellprocess.com.

Sales and Service

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

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Honeywell Process Solutions, Phone: (TAC) (800) 423-9883 or (215) 641-3610 (Sales) 1-800-343-0228

Email: (Sales)

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For more information

To learn more about SmartLine Transmitters, visit www.honeywellprocess.com
Or contact your Honeywell Account Manager

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